UC-NRLF
B 3 854 759

GIFT OF
Walter Mulford.

SIGILLVM · VNIVERSITATIS · CALIFORNIENSIS
FIAT LVX
MDCCCLXVIII

EX LIBRIS

Agric. Dept. Forestry. Main Library.

Pamphlets on Forestry. History

FORESTRY PAMPHLETS

History -- Volume II

U. S. F. S. Field Program, 1910-14

January, 1910 Feb - May 1910
June, 1910
July, 1910 Oct. 1910
January, 1911
April, 1911
July, 1911
October, 1911
January, 1912
April, 1912
July, 1912 Oct. 1912
January, 1913
April, 1913 July, Oct 1913
January, 1914
April, 1914
July, 1914
October, 1914

UNIV. OF CALIFORNIA

SD121
P4
v.2

FORESTRY PAMPHLETS

History -- Volume II

U. S. F. S. Field Program, 1910-14

January, 1910
June, 1910
July, 1910
January, 1911
April, 1911
July, 1911
October, 1911
January, 1912
April, 1912
July, 1912
January, 1913
April, 1913
January, 1914
April, 1914
July, 1914
October, 1914

Main Lib.
Forestry

Walter Mulford

Issued January 1, 1910

UNITED STATES DEPARTMENT OF AGRICULTURE
FOREST SERVICE

GIFFORD PINCHOT, Forester

January Field Program

1910

This program of field work and assignments in the Forest Service is issued on the first day of each month and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed and reference to projects for which plans have not been matured are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all Districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

UNIV. OF
CALIFORNIA

FIELD PROGRAM FOR JANUARY, 1910

OFFICE OF THE FORESTER

GIFFORD PINCHOT, Forester.
OVERTON W. PRICE, Associate Forester.
HARRY L. HILL, Secretary to the Forester.

P. P. WELLS, Law Officer.
A. C. SHAW, Assistant Law Officer.
HERBERT A. SMITH, Editor.
FINDLEY BURNS, in charge of Publication.
RAYMOND W. PULLMAN, in charge of Information.
GEORGE B. SUDWORTH, Dendrologist.
R. S. KELLOGG, Assistant Forester, engaged upon Forest Statistics.
EUGENE S. BRUCE, Expert Lumberman.
D. D. BRONSON, General Inspector.
E. M. GRIFFITH, Special Inspector, Madison, Wis.

OPERATION

JAMES B. ADAMS, Assistant Forester, in Charge.
GEORGE G. ANDERSON, Assistant in Office Methods.

ACCOUNTS

H. B. CRAMER, Fiscal Agent.
E. A. MELZAR, District Fiscal Agent.

GEOGRAPHY

FRED G. PLUMMER, Chief.

Atlas, G. B. BRUCE, Acting.
Alienation, J. B. SATTERLEE.
Drafting, C. A. KOLB.
Photography, A. G. VARELA.

MAINTENANCE

GEORGE A. BENTLEY, Chief.

SILVICULTURE

WILLIAM T. COX, Assistant Forester, in Charge.
E. E. CARTER, Assistant Forester.

STATE AND PRIVATE COOPERATION

J. G. PETERS, Chief.

PROJECTS

Alabama—

Preparation of a working-plan report for the Tennessee Coal, Iron and Railroad Company—E. D. CLARK, Washington, D. C.

Eastern States—

Preliminary examinations of forest land, in cooperation with private owners—J. H. FOSTER, A. W. WILLIAMSON, W. B. WILLEY, G. T. BACKUS, and W. H. VON BAYER, Washington D. C.

Florida—

Eucalyptus study—J. M. BRISCOE, Gainesville.

Illinois—

Study of forest conditions, in cooperation with the State Laboratory of Natural History—R. C. HALL and O. D. INGALL, Urbana.

Louisiana—

Preliminary examination of forest conditions, in cooperation with the State—W. M. MOORE, Baton Rouge.

Mississippi—

Preparation of a report on forest conditions, in cooperation with the State—C. E. DUNSTON, Washington, D. C.

North Carolina—

Preparation of a report on forest conditions, in cooperation with North Carolina Geological and Economic Survey—J. S. HOLMES, Chapel Hill.

Virginia—

Preliminary examination of forest conditions, in cooperation with the State, and examination of forest land, in cooperation with private owners—W. W. ASHE, Richmond.

SILVICS

RAPHAEL ZON, Chief.

PROJECTS

General—

Basket willow study and seed testing and seed storage—N. H. GRUBB, Washington, D. C.

Northeastern States—

Study of northern hardwoods—E. H. FROTHINGHAM, Washington, D. C.

Forest Measurements, W. B. BARROWS.
Compilation, Miss M. C. GANNETT.
Library, Miss H. E. STOCKBRIDGE.

GRAZING

A. F. POTTER, Assistant Forester, in Charge.
L. F. KNEIPP, Assistant Forester.
WILL C. BARNES, Inspector of Grazing (in the Field).

PROJECTS

Forage investigations; compilation of data—F. V. COVILLE, Botanist, Bureau of Plant Industry, in charge, Washington, D. C.; preparation of report on experimental pasture project, JAMES T. JARDINE, Deputy Forest Supervisor, Washington, D. C.; preparation of report on forage plant investigations, ARTHUR T. SAMPSON, Plant Ecologist, Washington, D. C. (detailed to Bureau of Plant Industry under instructions of F. V. COVILLE, Botanist).

Identification of grasses and plants—Dr. EDWARD L. GREENE, Consulting Expert, Washington, D. C.

PRODUCTS

WM. L. HALL, Assistant Forester, in Charge.

Accounts, W. R. FUCHS, District Fiscal Agent, Madison, Wis.

LABORATORY

In cooperation with the University of Wisconsin.
MCGARVEY CLINE, Director, Madison, Wis.

WOOD PRESERVATION

HOWARD F. WEISS, in Charge, Madison, Wis.
EDWARD H. FORD, Assistant, Madison, Wis.

Projects

Construction and experimental operation of a wood-preserving plant, in cooperation with the Alabama Wood Preserving Company—C. P. WINSLOW; assistant, E. W. PETERS, Birmingham, Ala.

Installation and operation of an experimental tie-treating plant, in cooperation with the Tennessee Coal, Iron and Railroad Company—C. P. WINSLOW; assistant, E. W. PETERS, Birmingham, Ala.

Design and construction of apparatus for the prevention of sap stain and for a wood-preserving plant, in cooperation with the Great Southern Lumber Company—C. T. BARNUM, Madison, Wis.

Preparation of treating-plant reports—C. H. TEESDALE, Madison, Wis.

Installation of wood-preserving apparatus, Forest Products Laboratory—F. M. BOND Madison, Wis.

TIMBER TESTS

ROLF THELEN, in Charge, Madison, Wis.

Projects

Timber-testing laboratory, ROLF THELEN, in charge, Madison, Wis.:
Purchase and installation of machinery and equipment;
Design of wood-working shop and purchase of equipment;
Design of machine shop and purchase of equipment.

Correlation of file system and analysis of timber-test data—H. E. MCKENZIE and J. O. BIXBY.

Dismantling of timber-testing laboratory at Purdue University and shipping of equipment to Madison, Wis.—J. A. NEWLIN, THOMAS LYONS, and HARRY WEYLS, Lafayette Ind.

WOOD CHEMISTRY

H. S. BRISTOL, in Charge, Madison, Wis.
H. E. SURFACE, Assistant, Madison, Wis.

Projects

Experiments with various woods for paper pulp—E. SUTERMEISTER, at Madison, Wis.

The refining and grading of wood turpentines and the methods of turpentine analysis—L. F. HAWLEY and E. BATEMAN, both at Madison, Wis.

Installation of wood-pulp laboratory—H. E. SURFACE.

WOOD TECHNOLOGY

H. D. TIEMANN, in Charge, Washington, D. C.

Projects

Devisal of methods and design of apparatus for drying and humidifying wood—H. D. TIEMANN.

Micrological studies of American woods—C. D. MELL and W. D. BRUSH.

Making micro-photographs of wood sections—H. D. TIEMANN and C. D. MELL.

Determination of the effect of different processes of drying upon the properties of wood—H. D. TIEMANN.

MAINTENANCE

W. H. KEMPFER, in Charge, Madison, Wis.

Stenography, MRS. NINA OWEN.
Computing, MRS. CARRIE N. MILLER.
Files and Library, MISS ELLA O. LATHAM.

WOOD UTILIZATION

H. S. SACKETT, in Charge, Fisher Building, Chicago, Ill.

PROJECTS

Markets—

Preparation of a market report for Chicago, Ill.—FRANKLIN H. SMITH, Fisher Building, Chicago, Ill.

Prices—

Collection of wholesale lumber prices in the markets and f. o. b. mill prices—FRANKLIN H. SMITH, Fisher Building, Chicago, Ill.

Wood Uses—

Study of the wood-using industries of Illinois—FRANKLIN H. SMITH, Fisher Building, Chicago, Ill.

Study of the wood-using industries of Wisconsin, in cooperation with the State Board of Forestry—FRANKLIN H. SMITH, Fisher Building, Chicago, Ill.

Study of the wood-using industries of Kentucky, in cooperation with the State Board of Agriculture, Forestry, and Immigration—R. E. SIMMONS, Fisher Building, Chicago, Ill.

Study of the wood-using industries of North Carolina, in cooperation with the North Carolina Geological and Economic Survey—R. E. SIMMONS, Fisher Building, Chicago, Ill.

Study of the wood-using industries of Maryland, in cooperation with the State Board of Forestry—HU MAXWELL, Washington, D. C.

Study of the wood-using industries of Massachusetts, in cooperation with F. W. RANE, State Forester, State House, Boston, Mass.—HU MAXWELL, Washington, D. C.

Preparation of reports upon the uses of the principal commercial woods—HU MAXWELL, Washington, D. C.; W. L. HALL, Washington, D. C.

Study of woods which may be used as substitutes for the southern junipers in the manufacture of lead pencils—H. S. SACKETT, Fisher Building, Chicago, Ill.

Waste—

Study of the waste incident to the manufacture of even lengths of flooring, ceiling, siding, and finish in the white pine, yellow pine, and hardwood regions—CHAS. F. HATCH, Fisher Building, Chicago, Ill.

DISTRICTS

DISTRICT 1

Montana, northeastern Washington, northern Idaho, northwestern South Dakota, northern Michigan, northern Minnesota, and southwestern North Dakota.

Office, Hammond Block, Missoula, Mont.

W. B. GREELEY, District Forester.
F. A. SILCOX, Assistant District Forester.

W. M. AIKEN, District Law Officer.
E. B. QUIGGLE, Assistant District Law Officer.

OPERATION

R. H. RUTLEDGE, Chief.
———, Assistant Chief.

Organization, Chief and Assistant Chief of Operation.
Accounts, H. I. LOVING. District Fiscal Agent.
Maintenance, R. L. CAMPBELL.

SILVICULTURE

R. Y. STUART, Chief.
D. T. MASON, Assistant Chief.

Timber Sales, Chief and Assistant Chief of Silviculture.

PROJECTS

Idaho—

Check scaling, Pend Oreille National Forest—G. L. COTT, Lumberman, Sandpoint.

Montana—

Northern Pacific estimates—KARL W. WOODWARD, N. C. BROWN, L. S. MURPHY, W. B. PIPER, F. A. GAYLORD, J. ST. J. BENEDICT, and E. D. FLETCHER, Missoula; Bitterroot National Forest, M. N. STICKNEY, Darby.

Examination of timber, Sioux National Forest—J. S. BAIRD, Lumberman, Camp Crook, S. Dak.; assistants, A. A. SAUNDERS, J. W. BUTLER, J. L. COBBS, H. E. FEGLEY, R. P. PRITCHARD, M. C. CASE, V. STARZINGER, C. D. KIGER, L. C. STOCKDALE, and R. W. MCKNIGHT.

Planting, E. C. CLIFFORD.
G. B. MCDONALD.

Silvics, Chief and Assistant Chief of Silviculture.

PROJECT

Idaho—

Office work in preparation of yield tables for Coeur d'Alene National Forest—F. I. ROCKWELL, Missoula, Mont.

Cooperation, Bureau of Entomology.

PROJECT

Location of insect-infested timber and determination of methods of local control—JOSEF BRUNNER, Field Agent, Bureau of Entomology, Columbia Falls, Mont.

GRAZING

C. H. ADAMS, Chief.
W. S. PERRINE, Assistant Chief.

PRODUCTS

PROJECTS

Wood Preservation—

Construction and experimental operation of a wood-preserving plant for treating fence posts and other ranch timbers, in cooperation with the Bitter Root Stock Farm—P. R. HICKS, Missoula, Mont.

Construction and experimental operation of a wood-preserving plant for treating ties, mine timbers, and telephone poles, in cooperation with the Anaconda Copper Mining Company—P. R. HICKS, Missoula, Mont.

NATIONAL FORESTS

IDAHO

Beaverhead—See Montana.

Clearwater—F. A. FENN, Forest Supervisor, Kooskia (WU-N); EDW. C. THENON, Deputy Forest Supervisor.

Cœur d'Alene—W. G. WEIGLE, Forest Supervisor, Wallace (WU-N); E. R. BRUNKE, Deputy Forest Supervisor.

Kaniksu—See Washington.

Nezperce—GEO. V. RING, Forest Supervisor, Grangeville (WU-N); J. ARTHUR BROWN, Deputy Forest Supervisor.

Pend Oreille—J. E. BARTON, Forest Supervisor, Sandpoint (WU-N, W); EDW. G. STAHL, Deputy Forest Supervisor.

MICHIGAN

Michigan
Marquette } —S. M. HIGGINS, Acting Forest Supervisor, Au Sable (WU-Am).

MINNESOTA

Minnesota—G. E. MARSHALL, Forest Supervisor, Cass Lake (WU-GN).

Superior—SCOTT LEAVITT, Acting Forest Supervisor, Ely (WU-GN).

MONTANA

Absaroka—V. GIFFORD LANTRY, Forest Supervisor, Livingston (WU-N); J. A. FITZWATER, Deputy Forest Supervisor.

Beartooth—J. F. PRESTON, Acting Forest Supervisor, Red Lodge (WU-N).

Beaverhead—C. K. WYMAN, Forest Supervisor, Dillon (WU-P); R. J. MOORE, Deputy Forest Supervisor.

Bitterroot—W. W. WHITE, Forest Supervisor, Missoula (WU-N); C. H. GREGORY, Lumberman.

Blackfeet—F. N. HAINES, Forest Supervisor, Kalispell (WU-GN); R. P. MCLAUGHLIN, Deputy Forest Supervisor; C. N. WHITNEY, Forest Assistant.

Cabinet—RALPH H. BUSHNELL, Forest Supervisor, Thompson Falls (WU-N).

Custer—GLEN A. SMITH, Forest Supervisor, Ashland (WU via Forsyth-N via Forsyth).

Deerlodge—C. C. HALL, Forest Supervisor, Anaconda (P-N); HARRY C. SCHICK, Deputy Forest Supervisor; F. S. PATTON, Forest Assistant.

Flathead—PAGE S. BUNKER, Forest Supervisor, Kalispell (WU-GN); JOHN H. CLACK, Deputy Forest Supervisor.

Gallatin—D. T. CONKLING, Forest Supervisor, Bozeman (WU-N).

Helena—DWIGHT BUSHNELL, Forest Supervisor, Helena (WU-N); J. D. WARNER, Deputy Forest Supervisor.

Jefferson—J. B. SEELY, Forest Supervisor, Great Falls (WU-N); WELLMAN HOLBROOK, Deputy Forest Supervisor; HENRY H. FARQUHAR, Forest Assistant.

Kootenai—DORR SKEELS, Acting Forest Supervisor, Libby (WU-GN); RUTLEDGE PARKER and E. I. TERRY, Forest Assistants.

Lewis and Clark—W. H. DAUGS, Forest Supervisor, Chouteau (WU via Collins-GN via Collins).

Lolo—ELERS KOCH, Forest Supervisor, Missoula (WU, P-N); THOS. C. SPAULDING, Forest Assistant.

Madison—CLIFTON W. HUDSON, Forest Supervisor, Sheridan (WU-N).

Missoula—D. G. KINNEY, Forest Supervisor, Missoula (WU, P-N); RUSSELL G. POND, Deputy Forest Supervisor.

Sioux—See South Dakota.

NORTH DAKOTA

Dakota—C. A. BALLINGER, Forest Supervisor, Camp Crook, S. Dak. (WU via Bellefourche-Am via Bellefourche).

SOUTH DAKOTA

Sioux—C. A. BALLINGER, Forest Supervisor, Camp Crook (WU via Bellefourche-Am via Bellefourche).

WASHINGTON

Kaniksu—W. N. MILLAR, Forest Supervisor, Newport (WU-GN); WM. C. LATANE, Forest Assistant.

DISTRICT 2

Colorado, Wyoming, South Dakota, Nebraska, and western Kansas.

Office, Majestic Building, Denver, Colo.

SMITH RILEY, District Forester.
P. G. REDINGTON, Assistant District Forester.

JOHN M. CATES, District Law Officer.
J. F. LAWSON, Assistant District Law Officer.

OPERATION

FRED W. MORRELL, Chief.
C. J. STAHL, Assistant Chief.
NILE HUGHEL, District Engineer.

Organization, Chief and Assistant Chief of Operation.
Accounts, JOHN A. URBANOWICZ, District Fiscal Agent.
Maintenance, F. B. AGEE.

SILVICULTURE

A. K. CHITTENDEN, Chief.
S. L. MOORE, Assistant Chief.

Timber Sales, Chief and Assistant Chief of Silviculture.

PROJECT

Wyoming—

Supervision of logging, Big Horn Timber Company sale on the Bighorn National Forest—JOHN E. ELLIOTT, Woodrock.

Planting, L. C. MILLER.

Silvics, C. G. BATES.

PROJECTS

Colorado—

Study of the climatic factors affecting the distribution, growth, and pathological condition of the Rocky Mountain forest trees at the Fremont Experiment Station—C. G. BATES, Denver.

Nebraska—

Preparation of report on results of planting experiments on the Nebraska National Forest—C. G. Bates, Denver, Colo.

Wyoming—

Preparation of preliminary report on lodgepole pine cutting system, with volume tables for Cheyenne National Forest—A. G. HAMEL, Denver, Colo.

Cooperation, Bureau of Entomology.

PROJECT

Location of insect-infested timber and determination of methods of local control—W. D. EDMONSTON, detailed from the Forest Service, Colorado Springs, Colo.

GRAZING

J. W. NELSON, Chief.
E. N. KAVANAGH, Assistant Chief.

PRODUCTS

H. S. BETTS, in Charge.

PROJECTS

Timber Tests—

Timber-testing laboratory in cooperation with the University of Colorado, Boulder, Colo.—NORMAN BETTS, in charge; assistants, A. D. WOLFF and H. V. BLANK.

Tests on round timbers of various Rocky Mountain species, including mine timbers, in cooperation with the Northern Coal and Coke Company, Rocky Mountain Fuel Company, and various National Forests.

Tests on western red cedar, lodgepole pine, and Engelmann spruce telephone poles, in cooperation with the South Platte Power Company, Central Colorado Power Company, and the Colorado Telephone Company.

Preparation of reports on results of tests on Douglas fir and yellow pine cross-ties and on round mine timbers.

Preparation of specimens for exhibits of the Denver Chamber of Commerce and the Missoula Chamber of Commerce.

Wood Preservation—

Construction and experimental operation of a portable wood preserving plant on the Routt National Forest—H. M. MASON, Jr., Denver, Colo.

Compilation of a final report on the year's work at the Forest Service wood-preserving plant at Norrie, Colo.—D. L. CARMODY, Denver, Colo.

Preliminary investigation for determining the feasibility of preservative treatment for the mine timbers of the Smuggler-Union Mining Company—H. M. MASON, Jr., Denver, Colo.

NATIONAL FORESTS

COLORADO

Arapaho—C. G. POOLE, Forest Supervisor, Fraser (WU-Ad); LEE E. COOPER, Deputy Forest Supervisor.

Battlement—JOHN W. LOWELL, Jr., Acting Forest Supervisor, Collbran (WU-WF, G).

Cochetopa—EUGENE WILLIAMS, Forest Supervisor, Saguache (WU-G).

Gunnison—WM. R. KREUTZER, Forest Supervisor, Gunnison (WU-WF, G); E. C. BERKY, Deputy Forest Supervisor; STANLEY B. HALL, Forest Assistant.

Hayden—See Wyoming.

Holy Cross—HARRY H. FRENCH, Forest Supervisor, Glenwood Springs (WU-WF, G); ALBERT H. MILLER, Deputy Forest Supervisor.

La Sal—See Utah, District 4.

Las Animas—C. A. WHITNEY, Acting Forest Supervisor, La Veta (WU-G).

Leadville—THEODORE SHOEMAKER, Acting Forest Supervisor, Leadville (WU, P-WF, G); R. E. CLARK, Deputy Forest Supervisor; J. E. MARTIN, Forest Assistant.

Medicine Bow—H. N. WHEELER, Forest Supervisor, Fort Collins (WU-WF); H. B. HOLROYD, Deputy Forest Supervisor.

Montezuma—RESS PHILLIPS, Forest Supervisor, Mancos (WU-G); FRANK TOMPKINS, Deputy Forest Supervisor.

Pike—C. M. GRANGER, Acting Forest Supervisor, Denver (WU, P-Ad, G, P, US, WF); W. I. HUTCHINSON, Forest Assistant; Monument Nursery—W. SCHRADER, Forest Planting Assistant; G. W. HENDRY, Forest Assistant, Monument.

Rio Grande—A. L. STROUP, Forest Supervisor, Monte Vista (WU-G); WALTER F. BOWERS, Deputy Forest Supervisor; JAY HIGGINS, Forest Assistant.

Routt—J. H. RATLIFF, Forest Supervisor, Steamboat Springs (WU-Ad); P. J. PAXTON, Forest Assistant.

San Isabel—J. N. LANGWORTHY, Forest Supervisor, Westcliffe (WU-G); M. B. WILLEY, Deputy Forest Supervisor.

San Juan—ERNEST W. SHAW, Forest Supervisor, Durango (WU-G); A. L. SWEITZER, Deputy Forest Supervisor; PETER KEPLINGER, Forest Assistant.

Sopris—JOHN MCLAREN, Acting Forest Supervisor, Aspen (WU-WF, G); THOS. C. HATTON, Deputy Forest Supervisor; R. H. THOMPSON, Forest Assistant.

Uncompahgre—HENRY L. SPENCER, Forest Supervisor, Delta (WU-G); HOWARD S. BUSHNELL, Deputy Forest Supervisor; J. H. RAMSKILL, Forest Assistant.

White River—JAMES A. BLAIR, Forest Supervisor, Meeker (WU-WF, G); ELMER E. STEPHENSON, Deputy Forest Supervisor.

KANSAS

Kansas—B. R. H. D'ALLEMAND, Forest Supervisor, Garden City (WU, P-WF); Garden City Nursery—C. R. TAYLOR, Forest Planting Assistant.

NEBRASKA

Nebraska—W. H. MAST, Forest Supervisor, Halsey (WU-Ad); H. R. SHOCKLEY, Deputy Forest Supervisor; Halsey Nursery—L. BESLEY and C. R. BECHTLE, Forest Planting Assistants.

SOUTH DAKOTA

Black Hills—PAUL D. KELLETER, Forest Supervisor, Deadwood (WU-Ad, Am); JOHN MURDOCH, Jr., and G. A. DUTHIE, Forest Assistants.

WYOMING

Bighorn—W. E. JACKSON, Forest Supervisor, Sheridan (WU-Ad); HERBERT GRAFF, Deputy Forest Supervisor.

Bonneville—FOSTER STEELE, Acting Forest Supervisor, Pinedale (WU-P); H. EARLE FRENCH, Deputy Forest Supervisor.

Cheyenne—P. S. LOVEJOY, Forest Supervisor, Laramie (WU, P-P); JOHN W. STEPHENS, Deputy Forest Supervisor; R. A. STRETCH, Forest Assistant.

Hayden—JAMES BLACKHALL, Forest Supervisor, Encampment (WU, P-P); ARTHUR M. COOK, Deputy Forest Supervisor.

Shoshone—H. W. THURSTON, Forest Supervisor, Cody (WU-Ad).

Sundance—LOUIS KNOWLES, Acting Forest Supervisor, Sundance (WU-Ad, Am).

DISTRICT 3

Arizona, Arkansas, Florida, New Mexico, and Oklahoma.
Office, Strickler-Luna Building, Albuquerque, N. Mex.

A. C. RINGLAND, District Forester.
E. H. CLAPP, Assistant District Forester.

H. B. JAMISON, District Law Officer.
BLAKE FRANKLIN, Assistant District Law Officer.

OPERATION

A. O. WAHA, Chief.
A. S. PECK, Assistant Chief.

Organization, Chief and Assistant Chief of Operation.
Accounts, J. J. DUFFY, District Fiscal Agent.
Maintenance, W. B. BUNTON.

SILVICULTURE

T. S. WOOLSEY, Jr., Chief.
A. B. RECKNAGEL, Assistant Chief.

Timber Sales, Chief and Assistant Chief of Silviculture.

PROJECTS

Arizona—

Preparation of working plan report for Coconino National Forest—J. H. ALLISON; Assistants, J. A. BLATHERWICK, G. H. BOHN, T. B. LONGWELL, ROBERT MOAK, P. P. PITCHLYNN, and THOMAS F. WELLS, Flagstaff.

Preparation of working plan reports for Prescott and Sitgreaves National Forests—D. W. ADAMS, Albuquerque, N. Mex.

New Mexico—

Check scaling on the Pecos, Jemez, and Carson National Forests—A. A. WYNNE, Lumberman, Santa Fe, N. Mex.

Revision of working plan for Manzano National Forest and collection of data for volume and growth study of woodland species—L. L. JANES, in charge; Assistant, F. R. WIGELY, Albuquerque.

Planting, Chief and Assistant Chief of Silviculture.

Inspection of sowing and planting—R. L. ROGERS, Albuquerque, N. Mex.

Silvics, Coconino Forest Experiment Station—G. A. PEARSON, in charge; Assistants, H. D. BURRALL and C. HELLER, Flagstaff, Ariz.

GRAZING

J. K. CAMPBELL, Chief.
JOHN KERR, Assistant Chief.

NATIONAL FORESTS

ARIZONA

Apache—JOHN D. GUTHRIE, Forest Supervisor, Springerville (WU, P-WF); HARRY C. VILES, Deputy Forest Supervisor; ALDO LEOPOLD, Forest Assistant.

Chiricahua—A. H. ZACHAU, Forest Supervisor, Portal (WU, P-WF).

Coconino—FRANK C. W. POOLER, Forest Supervisor, Flagstaff (WU, P-WF); WILLARD M. DRAKE, Deputy Forest Supervisor; E. H. CRABB, Deputy Forest Supervisor; J. C. KIRCHER, Forest Assistant.

Coronado—ROBERT J. SELKIRK, Forest Supervisor, Tucson (WU, P-WF); ROBERT L. ROGERS, Deputy Forest Supervisor.

Crook—T. T. SWIFT, Forest Supervisor, Safford (WU-WF); H. L. JOHNSON, Forest Assistant.

Garces—ROBERT J. SELKIRK, Forest Supervisor, Tucson (WU, P-WF); ROBERT L. ROGERS, Deputy Forest Supervisor.

Prescott—C. H. HINDERER, Forest Supervisor, Prescott (WU-WF); J. C. MCNELTY, Deputy Forest Supervisor.

Sitgreaves—A. J. MACKAY, Forest Supervisor, Snowflake (WU, P-WF).

Tonto—R. G. WILLSON, Forest Supervisor, Roosevelt (WU-WF); CHAS. H. JENNINGS, Deputy Forest Supervisor.

Zuni—See New Mexico.

ARKANSAS

Arkansas—S. J. RECORD, Forest Supervisor, Mena (WU-WF); S. A. CHAPPELL, Deputy Forest Supervisor.

Ozark—FRANCIS KIEFER, Forest Supervisor, Harrison (WU-WF); RALPH C. HUEY, Deputy Forest Supervisor.

FLORIDA

Choctawhatchee, **Ocala**—I. F. ELDREDGE, Acting Forest Supervisor, De Funiak Springs; W. F. HILL, Deputy Forest Supervisor.

NEW MEXICO

Alamo—ARTHUR M. NEAL, Forest Supervisor, Alamogordo (WU, P-WF).

Carson—ROSS MCMILLAN, Forest Supervisor, Antonito, Colo. (WU-G); FREDERICK R. STARR, Forest Assistant.

Chiricahua—See Arizona.

Datil—W. H. GODDARD, Forest Supervisor, Magdalena (WU, P-WF); R. F. BALTHIS, Deputy Forest Supervisor.

Gila—DOUGLAS RODMAN, Forest Supervisor, Silver City (WU-WF); DON P. JOHNSTON, Deputy Forest Supervisor; BARRINGTON MOORE, Forest Assistant; Fort Bayard Nursery—H. C. TURNER, Forest Planting Assistant.

Jemez—FRANK E. ANDREWS, Forest Supervisor, Santa Fe (WU, P-WF); B. M. THOMAS, Deputy Forest Supervisor; WESLEY BRADFIELD, Forest Assistant.

Lincoln—J. A. KINNEY, Forest Supervisor, Capitan (WU, P-WF).

Manzano—W. R. MATTOON, Forest Supervisor, Albuquerque (WU, P-WF); JAMES F. MULLEN, Deputy Forest Supervisor.

Pecos—THOS. R. STEWART, Forest Supervisor, Santa Fe (WU, P-WF); HUGH G. CALKINS, Deputy Forest Supervisor; WESLEY BRADFIELD, Forest Assistant; Las Gallinas Nursery—A. HEDRICKS, Forest Planting Assistant.

Zuni—A. D. READ, Forest Supervisor, Gallup (WU, P-WF); FREDERICK A. WINN, Deputy Forest Supervisor.

OKLAHOMA

Wichita—FRANK RUSH, Game Warden, in charge, Cache (WU-WF).

DISTRICT 4

Utah, southern Idaho, western Wyoming, eastern Nevada, and northwestern Arizona.

Forest Service Building, Ogden, Utah.

CLYDE LEAVITT, District Forester.
FRANKLIN W. REED, Assistant District Forester.

W. C. HENDERSON, District Law Officer.
T. C. HOYT, Assistant District Law Officer.

OPERATION

R. P. IMES, Chief.
E. H. CLARKE, Assistant Chief.
A. T. MITCHELSON, District Engineer.

Organization, Chief and Assistant Chief of Operation.
Accounts, Q. R. CRAFT, District Fiscal Agent.
Maintenance, FELIX T. MOORE.

SILVICULTURE

L. L. WHITE, Chief.
O. M. BUTLER, Assistant Chief.

Timber Sales, Chief and Assistant Chief of Silviculture.

PROJECTS

Idaho—

Inspection of timber sales on Salmon National Forest—D. F. SEEREY, Lumberman.

Reconnaissance of timber on Sawtooth National Forest—C. P. WILBER, Hailey.

Check scaling, Salmon National Forest—JOHN K. KIDD, Scaler, Salmon.

Reconnaissance for Minidoka National Forest—NILS B. ECKBO, Oakley.

Reconnaissance for Pocatello National Forest—A. L. BROWER, Pocatello.

Utah—

Preparation of reconnaissance report and map for Manti National Forest—LINCOLN CROWELL and D. M. LANG, Ogden.

Planting, J. M. FETHEROLF.
Silvics, E. R. HODSON.

GRAZING

HOMER E. FENN, Chief.
A. C. McCAIN, Assistant Chief.
G. G. BENTZ, Assistant Chief.

SUPPLY DEPOT

A. M. SMITH, Property Clerk.

PROPERTY AUDIT

J. G. FALCK, Property Auditor.

NATIONAL FORESTS

ARIZONA

Dixie—See Utah.

Kaibab—JOHN H. CLARK, Forest Supervisor, Kanab, Utah (WU-WF); DANIEL K. JUDD, Deputy Forest Supervisor.

IDAHO

Boise—E. GRANDJEAN, Forest Supervisor, Boise (WU-P); D. C. A. GALARNEAU, Forest Assistant.

Cache—See Utah.

Caribou—N. E. SNELL, Forest Supervisor, Idaho Falls (WU-P); L. J. PHELAN, Deputy Forest Supervisor; JAMES H. JOHNSON, Grazing Assistant.

Challis—DAVID LAING, Forest Supervisor, Challis (WU-P); JOHN A. PEARSON, Deputy Forest Supervisor.

Idaho—HENRY A. BERGH, Forest Supervisor, McCall (WU-P).

Lemhi—C. I. HUDDLE, Forest Supervisor, Mackay (WU-P); JAMES L. PELTON, Deputy Forest Supervisor.

Minidoka—WM. MCCOY, Forest Supervisor, Oakley (WU-P); NILS B. ECKBO, Forest Agent.

Payette—GUY B. MAINS, Forest Supervisor, Emmett (WU-P); CARL B. ARENTSON, Deputy Forest Supervisor.

Pocatello—J. F. BRUINS, Acting Forest Supervisor, Pocatello (WU-P); A. L. BROWER, Forest Assistant; Pocatello Nursery—P. T. WRENSTED, Forest Ranger.

Salmon—JAMES M. RYAN, Acting Forest Supervisor, Salmon (WU-P); F. T. MCLEAN, Forest Assistant.

Sawtooth—C. N. WOODS, Forest Supervisor, Hailey (WU-P); H. G. MCPHETERS, Deputy Forest Supervisor; FRANK J. RYDER and C. P. WILBER, Forest Assistants.

Targhee—DAVID BARNETT, Forest Supervisor, St. Anthony (WU-P); CHESTER B. MORSE, Forest Assistant.

Targhee (Palisade)—DAN S. PACK, Forest Supervisor, St. Anthony (WU-P); LUCAS W. HASTINGS, Grazing Assistant.

Weiser—J. B. LAFFERTY, Forest Supervisor, Weiser (WU-P); W. M. CAMPBELL, Deputy Forest Supervisor; A. E. OMAN, Forest Assistant.

NEVADA

Humboldt—C. SYDNEY TREMEWAN, Forest Supervisor, Elko (WU-WF); W. W. BLAKESLEE, Deputy Forest Supervisor.

Moapa—HARRY E. MATHEWS, Acting Forest Supervisor, Las Vegas (WU-WF).

Nevada—R. F. MATHIAS, Acting Forest Supervisor, Ely (WU-WF); CHAS. F. PATTERSON, Deputy Forest Supervisor; RUDOLPH DIEFFENBACH, Forest Assistant.

Toiyabe—M. S. BENEDICT, Forest Supervisor, Austin (WU, P-WF).

UTAH

Ashley—W. M. ANDERSON, Forest Supervisor, Vernal (WU-WF).

Cache—CLINTON G. SMITH, Forest Supervisor, Logan (WU-P); J. E. ROTHERY, Deputy Forest Supervisor.

Dixie—JAMES E. JEWELL, Forest Supervisor, St. George (WU-WF).

Fillmore—WM. HURST, Forest Supervisor, Beaver (WU-WF); GEORGE C. THOMPSON, Deputy Forest Supervisor; REESE W. TAYLOR, Forest Assistant.

Fishlake—CHARLES L. SMITH, Forest Supervisor, Salina (WU-WF); OLUF G. NIELSON, Deputy Forest Supervisor.

La Sal—JOHN RIIS, Forest Supervisor, Moab (WU-WF).

Manti—A. W. JENSEN, Forest Supervisor, Ephraim (WU-WF); ERNEST WINKLER, Deputy Forest Supervisor; LINCOLN CROWELL, Forest Assistant; PARLEY CHRISTIANSEN, Grazing Assistant.

Minidoka—See Idaho.

Nebo—H. F. STUDLEY, Acting Forest Supervisor, Nephi (WU-WF).

Pocatello—See Idaho.
Powell—GEO. H. BARNEY, Forest Supervisor, Escalante (WU-WF).
Sevier—O. C. SNOW, Forest Supervisor, Panguitch (WU-WF); FRANK W. SEAMAN, Deputy Forest Supervisor.
Uinta—W. I. PACK, Forest Supervisor, Provo (WU-WF); SIDNEY S. STEWART, Forest Assistant; W. JONES BOWEN, Grazing Assistant.
Wasatch—R. V. R. REYNOLDS, Forest Supervisor, Salt Lake City (WU, P-WF, P); WILLIAM M. MCGHIE, Deputy Forest Supervisor; Wasatch Nursery—N. J. FETHEROLF, Forest Planting Assistant.

WYOMING

Ashley—See Utah.
Caribou—See Idaho.
Targhee—See Idaho.
Teton—R. E. MILLER, Forest Supervisor, Jackson (WU-P).
Wyoming—JOHN RAPHAEL, Forest Supervisor, Afton (WU-P); H. E. WOOLLEY, Deputy Forest Supervisor; JOHN E. INGRAM, Forest Assistant; GLIDDEN J. BARSTOW, Grazing Assistant.

DISTRICT 5

California and southwestern Nevada.
Office, First National Bank Building, San Francisco, Cal.

F. E. OLMSTED, District Forester.
COERT DUBOIS, Assistant District Forester.

H. P. DECHANT, Acting District Law Officer.
G. E. TROWBRIDGE, Assistant District Law Officer.

OPERATION

ROY HEADLEY, Chief.
R. F. HAMMATT, Assistant Chief.

Organization, Chief and Assistant Chief of Operation.
Accounts, CLARENCE WILEY, District Fiscal Agent.
Maintenance, JAMES B. JEFFRIES.

SILVICULTURE

G. M. HOMANS, Chief.
T. D. WOODBURY, Assistant Chief.

Timber Sales, Chief and Assistant Chief of Silviculture.

PROJECTS

Examination of timber trespass and of proposed sale areas in the recent addition to the Lassen National Forest—C. H. ENSIGN, Lumberman, Red Bluff, Cal.

Examination of proposed sale areas on the Plumas National Forest—PATRICK KENNEDY and J. C. ELLIOTT, Lumbermen, Quincy, Cal.

A study of eucalypts in the Hawaiian Islands in cooperation with the territorial Forester—L. MARGOLIN, Honolulu, Hawaii.

Planting, G. W. PEAVY; C. A. KUPFER, Assistant.

PROJECTS

Construction of a coniferous nursery, location of permanent experimental planting areas, and the collection of seed on the Shasta National Forest—N. O. TORSTENSON, Planting Assistant, California.

Preparation of a plan for experimental eucalypts planting in southern California—J. M. GRANT, Santa Barbara, Cal.

Silvics, Chief and Assistant Chief of Silviculture.

GRAZING

JOHN H. HATTON, Chief.
M. B. ELLIOTT, Assistant Chief.

PRODUCTS

C. S. SMITH, in Charge.

PROJECTS

Timber Tests—

Testing laboratory in cooperation with the University of California, Berkeley, Cal.—A. L. HEIM, in charge; assistant, G. R. GESSERT.

Tests on redwood in cooperation with the California Redwood Association.

Wood Preservation—

Experiments to determine the best methods of seasoning *Eucalyptus globulus* poles and logs, in cooperation with the estate of Adolph Sutro, the Pacific Land Investment Company, the Mount Tamalpais Cemetery Association, and the Parkside Realty Company; and *Eucalyptus viminalis* logs, in cooperation with the University of California—C. STOWELL SMITH, San Francisco, Cal.

Experiments to determine the relative resistance to marine wood borers of different species of untreated timber and of Douglas fir treated by various preservatives and coatings—A. K. ARMSTRONG, San Francisco, Cal.

Study of the conditions found in the Empire mines, Grass Valley, with a view to recommending cooperation in the preservative treatment of mine timbers—C. STOWELL SMITH, San Francisco, Cal.

NATIONAL FORESTS

CALIFORNIA

Angeles—R. H. CHARLTON, Forest Supervisor, Los Angeles (WU, P-WF); ERNEST B. LONG, Deputy Forest Supervisor; Lytle Creek Nursery—SEROPE Y. PARNAY, Forest Planting Assistant, San Bernardino.

California—ERNEST BRITTEN, Forest Supervisor, Willows (P-WF); N. B. DREW, Deputy Forest Supervisor; ALLAN H. HODGSON, Forest Assistant.

Cleveland—H. A. E. MARSHALL, Forest Supervisor, San Diego (WU, P-WF); PERCY L. DAY, Deputy Forest Supervisor; F. L. RICKEY, Planting Assistant.

Inyo—A. H. HOGUE, Forest Supervisor, Bishop (WU-WF); JOHN D. COFFMAN, Forest Assistant.

Klamath—R. L. FROMME, Forest Supervisor, Yreka (P-WF); FRANK W. HARLEY. Deputy Forest Supervisor; SHIRLEY W. ALLEN, Forest Assistant.

Lassen—L. A. H. KLING, Forest Supervisor, Red Bluff (P-WF); J. C. LA PLANT, Deputy Forest Supervisor; HENRY L. BOLDENWECK, Forest Agent.

Modoc—C. E. RACHFORD, Forest Supervisor, Alturas (P-WF); VERNON L. BONNER, Deputy Forest Supervisor; BELKNAP C. GOLDSMITH, Forest Assistant.

Mono—See Nevada.

Monterey—RAYMOND TYLER, Forest Supervisor, Salinas (WU-WF).

Plumas—L. A. BARRETT, Forest Supervisor, Quincy (WU-WF); W. G. DURBIN, Deputy Forest Supervisor; J. R. HALL, Forest Assistant.

Santa Barbara—WILLIS M. SLOSSON, Forest Supervisor, Santa Barbara (P-WF); H. G. MERRILL, Deputy Forest Supervisor.

Sequoia—E. A. SHERMAN, Forest Supervisor, Hot Springs, Tulare County (WU via Portersville-WF); W. C. BURTON, Deputy Forest Supervisor.

Shasta—W. B. RIDER, Forest Supervisor, Sisson (P-WF); PHILIP T. HARRIS, Deputy Forest Supervisor.

Sierra—C. H. SHINN, Forest Supervisor, Northfork (WU via Fresno-WF); M. A. BENEDICT, Deputy Forest Supervisor; H. J. TOMPKINS, Forest Assistant.

Stanislaus—R. W. AYERS, Forest Supervisor, Sonora (WU-WF); D. N. ROGERS, Deputy Forest Supervisor; J. V. WULFF, Forest Assistant.

Tahoe—R. L. P. BIGELOW, Forest Supervisor, Nevada City (WU-WF); M. B. PRATT, Deputy Forest Supervisor; J. ALFRED MITCHEL, Forest Assistant.

Trinity—F. H. HAFLEY, Forest Supervisor, Weaverville (WU-WF); W. A. HUESTIS, Deputy Forest Supervisor; ERNEST V. JOTTER, Forest Assistant.

NEVADA

Inyo—See California.

Mono—WM. M. MAULE, Forest Supervisor, Gardnerville (WU-WF).

Tahoe—See California.

DISTRICT 6

Washington, Oregon, and Alaska.

Office, Beck Building, Portland, Oreg.

C. S. CHAPMAN, District Forester.
GEO. H. CECIL, Assistant District Forester.

C. R. PIERCE, District Law Officer.
W. F. STALEY, Assistant District Law Officer.

OPERATION

C. H. FLORY, Chief.
C. J. BUCK, Assistant Chief.
W. E. HERRING, District Engineer.

Organization, Chief and Assistant Chief of Operation.
Accounts, A. H. COUSINS, District Fiscal Agent.
Maintenance, SHIRLEY BUCK.

SILVICULTURE

F. E. AMES, Chief.
C. S. JUDD, Assistant Chief.

Timber Sales, Chief and Assistant chief of Silviculture.

PROJECTS

Oregon—

Examination of proposed sale areas on the Whitman National Forest—C. S. JUDD, Assistant Chief of Silviculture, Sumpter.

Washington—

Examination of proposed sale areas on the Olympic National Forest—J. P. HUGHES, Lumberman, Olympia.

Reconnaissance of the Olympic National Forest—MAX ROTHKUGEL, Forest Assistant, Olympia.

Planting, J. F. KÜMMEL.
Silvics, T. T. MUNGER.

GRAZING

H. K. O'BRIEN, Chief.
T. P. MACKENZIE, Assistant Chief.

PRODUCTS

J. B. KNAPP, in Charge.

PROJECTS

Timber Tests—

Testing laboratory in cooperation with the University of Washington, Seattle, Wash.—O. P. M. Goss in charge; assistants, P. S. Buhl, C. W. Zimmerman.

Tests of treated Douglas fir in cooperation with the Pacific Creosoting Company.

Tests of fire-killed Douglas fir in cooperation with the Clarke County Timber Company and the Eastern and Western Lumber Company.

Wood Preservation—

Investigation of the possibilities for the use of treated timber for improvement work on the National Forests in District 6—H. B. Oakleaf, Portland, Oreg.

Investigation of the use of timber by the railroads and telegraph companies in the States of Oregon and Washington with a view to encouraging the use of a preservative treatment for such timber—J. B. Knapp and H. B. Oakleaf, Portland, Oreg.

Wood Utilization—

Study of the market for and uses of forest products at Tacoma, Wash.—John F. Sullivan, Tacoma, Wash.

Study of the shingle industry in the State of Washington—J. B. Knapp and John F. Sullivan, Portland, Oreg.

Study of the box industry in the Pacific Northwest—J. F. Sullivan, Portland, Oreg.

NATIONAL FORESTS

ALASKA

Chugach—W. A. Langille, Forest Supervisor, Ketchikan (SC, U. S. A., WU-AP); H. M. Conrad, Deputy Forest Supervisor; Lage Wernstedt, Forest Assistant.

Tongass—W. A. Langille, Forest Supervisor, Ketchikan (SC, U. S. A., WU-AP); H. M. Conrad, Deputy Forest Supervisor; Lage Wernstedt, Forest Assistant.

CALIFORNIA

Crater—See Oregon.

Siskiyou—See Oregon.

OREGON

Cascade—C. R. Seitz, Forest Supervisor, Eugene (WU, P-WF); J. R. Harvey, Deputy Forest Supervisor; E. B. Starr, Forest Assistant.

Crater—M. L. Erickson, Forest Supervisor, Medford (WU, P-WF); S. S. Swenning, Deputy Forest Supervisor; H. D. Foster and B. T. Harvey, Forest Assistants.

Deschutes—A. S. Ireland, Forest Supervisor, Prineville (PT & T-WF, via Shaniko).

Fremont—Guy M. Ingram, Forest Supervisor, Lakeview (WU via Klamath Falls-WF); G. D. Brown, Deputy Forest Supervisor.

Malheur—Cy. J. Bingham, Forest Supervisor, John Day (WU via Baker City-WF via Baker City).

Oregon—T. H. Sherrard, Forest Supervisor, Portland (WU, P-WF, N, P); Ralph S. Shelley, Deputy Forest Supervisor; W. B. Osborne, Forest Assistant.

Siskiyou—M. J. Anderson, Forest Supervisor, Grants Pass (WU, P-WF); Hugh M. Guthrie, Deputy Forest Supervisor; H. Haefner, Forest Assistant.

Siuslaw—A. E. Cohoon, Forest Supervisor, Eugene (WU, P-WF); David E. Fitton, Deputy Forest Supervisor.

Umatilla—Thos. E. Chidsey, Forest Supervisor, Heppner (WU-P).

Umpqua—S. C. Bartrum, Forest Supervisor, Roseburg (WU, P-WF); H. M. Hale, Deputy Forest Supervisor; E. H. McDaniels, Forest Assistant.

Wallowa—H. W. Harris, Forest Supervisor, Wallowa (WU-P); S. A. Brown, Deputy Forest Supervisor; Chas. Black, Grazing Assistant; E. O. Siecke, Forest Assistant.

Wenaha—See Washington.

Whitman—Henry Ireland, Forest Supervisor, Sumpter (WU via Baker City-WF via Baker City).

WASHINGTON

Chelan—G. W. Milham, Forest Supervisor, Chelan (PT & T-GN via Wenatchee); D. S. Rice, Deputy Forest Supervisor; D. B. Reynolds, Forest Assistant.

Columbia—Homer Ross, Acting Forest Supervisor, Portland, Oreg. (WU, P-WF, N, P); A. R. Wilcox, Forest Assistant.

Colville—C. C. Reid, Acting Forest Supervisor, Republic (WU, P-GN).

Olympic—R. E. Benedict, Forest Supervisor, Olympia (WU-GN, N); E. E. Fishel, Deputy Forest Supervisor.

Rainier—G. F. Allen, Forest Supervisor, Orting (WU-N); H. L. Hurd, Deputy Forest Supervisor; C. P. Willis and E. J. Fenby, Forest Assistants.

Snoqualmie—B. P. Kirkland, Forest Supervisor, Seattle (WU, P-N, GN, WF); E. T. Clark, Forest Assistant.

Washington—C. H. Park, Forest Supervisor, Bellingham (WU, P-GN, N); A. A. Parker, Deputy Forest Supervisor; F. H. Brundage and M. L. Merritt, Forest Assistants.

Wenaha—J. M. Schmitz, Forest Supervisor, Walla Walla (WU-N, P).

Wenatchee—A. H. Sylvester, Forest Supervisor, Leavenworth (WU-GN); S. A. Blankenship, Deputy Forest Supervisor; F. W. Cleator, Forest Assistant.

SERVICE CHANGES IN DECEMBER

APPOINTED

Forester—

PUBLICATION: EDWIN R. JACKSON, Expert.

RESTORED TO THE ROLLS

Silviculture—

FEDERAL COOPERATION: ALLAN R. PATTERSON, Chief.

CHANGE IN DESIGNATION

District 5—

ORGANIZATION: M. A. BENEDICT, Deputy Forest Ranger, Plumas National Forest, to Deputy Forest Supervisor, Sierra National Forest.

With deep regret announcement is made of the death, on November 2, 1909, of William A. Phelps, Forest Ranger on the Coconino National Forest.

SERVICE NOTES FOR JANUARY

These notes contain instructions and necessary information for Forest officers, and will, therefore, be carefully read and kept on file for reference.

OFFICE OF THE FORESTER

LAW

Drift Fences, etc., on the Public Domain—

Several conferences have been held between representatives of the Department of the Interior and the Department of Agriculture in reference to drift fences and small enclosures with stock-watering tanks, wells, etc., which have been erected within or along the boundaries of National Forests under permits by the Forest Service and which will be left upon the public domain by proclamations eliminating certain areas from National Forests. As a result of these conferences, the Secretary of the Interior has written a letter to the Secretary of Agriculture, in which he states that, in reference to such drift fences and pastures, the Department of the Interior will not remove, or take steps to remove, them until ninety days after the date when the proclamation of elimination shall become effective, provided that the enclosures do not interfere with the rights of settlers and would-be entrymen under the public-land laws. He further states, in reference to small enclosures with stock-watering tanks, etc., that the Interior Department will initiate no action for the termination of such use until the expiration of the term specified in the Forest Service permit, provided that the enclosures are immediately removed at the expiration of the time so specified or prior thereto in case the lands in question should be entered under any of the public-land laws.

In order that the Department of the Interior may be informed with regard to drift fences and enclosures which have been thus erected under Forest Service permit, the Secretary of Agriculture has agreed, upon any Forest elimination affecting such fences or enclosures, to send a list thereof to the Secretary of the Interior as soon as the proclamation is made effective.

Since the Secretary of the Interior can not protect the Forest Service permittees against bona fide settlers who file on the lands so enclosed, it would seem advisable that Forest officers should inform the stockmen interested that they can obtain adequate protection by filing upon the lands in question themselves.

Correspondence with the Interior Department—

All Forest Service correspondence with the Interior Department or with the officials of the General Land Office will hereafter be as follows:

1. All classes of correspondence hitherto addressed to the Secretary of the Interior or to the Commissioner of the General Land Office will be addressed to the Secretary of the Interior and will be prepared for the signature of the Secretary of Agriculture.

2. All correspondence with subordinate officials of the Interior Department and the General Land Office on matters controverted between them will be prepared for the signature of the Secretary of Agriculture.

3. All letters transmitting favorable reports on claims by which lands will be alienated from the National Forests, all letters to the Secretary of the Interior listing lands under the act of June 11, 1906, accompanied by the report thereon by the examining officer, and all letters to the Secretary of the Interior reporting on right-of-way applications, accompanied by the stipulations and reports relating thereto, will be prepared for the signature of the Secretary of Agriculture.

4. The District Forester may correspond with officials of the local land office as hitherto (*a*) when transmitting unfavorable reports; (*b*) when making requests for status; and (*c*) in all other matters about which there is no difference of opinion between the officials of the two departments.

Criminal Action Dismissed—

The criminal case against Claes William Anderson, for cutting timber from the Siskiyou National Forest, was, on December 14, dismissed on motion of the United States attorney.

OPERATION

Transfers—

In a number of instances lately members of the Service have made requests for transfer to other Districts, Forests, or Offices, without first taking the matter up with the officers in charge of the work to which thery were then assigned. In no case should the question of transfer be taken up by any officer in charge of one District or Forest with a subordinate in another District or Forest, or with anyone making a request on behalf of such subordinate, without the knowledge of the officer in charge of the other District or Forest which may be indicated either by correspondence or by endorsement or initialing on the subordinate's request for transfer. Misunderstandings and needless correspondence will be obviated if this rule is followed.

Transfer of Salary Card—

Under the new card-accounting system, when a member is transferred from one Forest to another the procedure provided on page 51 of the Manual of Procedure for transfer of salary card (Form 19) should be followed by Forest supervisors. Care should be taken by the transferring supervisor, however, that the substitute card prepared for his own file in accordance with the instructions given on page 51 of the Manual is complete before the original is forwarded. The record of leave card (Form 24) should also be transferred, in order that the Forest to which a member is assigned may have his full record.

Special Transportation and Personal Services Defined—

In the meaning of Paragraph 14 (c) of the Fiscal Regulations "special transportation" includes the hire of teams, automobiles, boats, etc., by the day, week, or month and does not include ordinary hack or taxicab fares, for which, as for street-car fares, subvouchers are not required. "Personal services" means the employment of labor at a per hour, per diem, or per month rate. The cleaning of offices, mowing of lawns, repairing of tools, and other repair work are not "personal services" in the meaning of the regulation.

Distribution of Rangers' Services on Form 347 —

Form 347, Monthly Service Report, has in many instances shown too large a percentage of the time charged against "Miscellaneous Executive Duties." It is not intended when the day is divided among several classes of work that it be charged to "Miscellaneous Executive Duties," but that the only charge against this class of service be for work not connected in any way with any of the classes specifically named. Going for mail and general supplies is an illustration of work which can properly be charged to "Miscellaneous Executive Duties:" but, if a ranger engaged in fighting fire stops to go for supplies for the party, his time should be charged to fighting fire. It is suggested that the ranger distribute his time among the various classes at the end of each day's diary and round off fractions of days for his totals of the month.

Copy for Advertisements—

Frequent disallowances from advertising accounts are necessary because copy is incorrectly prepared. The instructions and sample forms printed on page 2 of the Form BF voucher should be carefully followed when preparing copy for advertising.

Economy in Telegraphing—

A sufficient supply of General Order No. 137 of the Secretary of Agriculture has been sent to District Foresters to enable the distribution of the order to all members of the Service who are authorized to make official use of the commercial telegraph. The name or title of the officer or member addressed should always be indicated by one word. Telegrams to a District Office should be addressed "Forestry," instead of "District Forester" as hitherto. Members of the Service should not fail to register at telegraph offices to insure the delivery of telegrams addressed to them under abbreviated names or titles. Members will be held to strict account for the use of needless words and for using the wires when the mail would be sufficient.

Proper Way of Writing Atlas Figures—

Hereafter the figures in all reports for the Forest Atlas and for the District Atlases will be *whole numbers followed by a decimal point and two decimals, or whole numbers* without decimal point or decimals. Reduce common fractions to decimals. Always use two decimals, never more nor less, thus:

Write	$43,256.20,	not	$43,256.2.
Write	$1,976.00,	not	$1,976.
Write	23.97 per cent,	not	23.9731 per cent.
Write	0.97 per cent,	not	.97 per cent.
Write	13.56 per cent,	not	.1356 (in distribution of Ranger Services).
Write	16.13 miles,	not	16⅛ miles.
Write	16.25 miles,	not	16¼ miles.
Write	9.50 chains,	not	9.5 chains.
Write	43.37 acres,	not	43.372 acres.
Write	43.38 acres,	not	43.377 acres.

In timber sales and other transactions where M. B. F. constitutes the unit of measure, omit the decimals. In all cases where the fraction is 500 feet or over increase it to one M. B. F. and discard all fractional parts of less than 500 feet, thus:

Write 5,124 M. B. F., not 5,124.49 M. B. F.

Write 5,125 M. B. F., not 5,124.53 M. B. F.

Do not enter fractional figures of cord measurements. A fraction of one-half cord or over should be treated as a whole cord, and minor fractions discarded, thus:

Write 350 cords, not 350.47 cords.

Write 351 cords, not 350.58 cords.

Care must also be taken to avoid the inadvertent insertion of decimals in connection with such items as can be reported only in whole numbers, viz, cattle, houses, ranger stations, etc., thus:

Write 2,260 sheep, not 2,260.00 sheep.

Write 16 houses, not 16. houses.

The hundreds, thousands, and millions of whole numbers should be separated by commas (,) thus:

Write 1,000,000, not 1000000.

Write 1,000, not 1000.

This scheme does not conflict with that of the General Land Office in recording the areas of land, except that only the regular subdivisions of sections are expressed in whole numbers: as 40, 80, 120, 160, 320, or 640 acres. The areas of unconventional sections or lots are expressed by whole numbers followed by a decimal point and two decimals. If in the future any statements of Land Office legal subdivisions are included in the Atlas, it will be most convenient to follow this plan. An example of such a statement is:

Sec. 2. All	638.26	acres.
Sec. 3. Lot 1	19.32	acres.
Sec. 3. Lot 2 and S. ½ NE.	119.20	acres.
Sec. 11. All	640	acres.
Sec. 12. NW. of NW.	40	acres.
Sec. 12. SW.	160	acres.
Sec. 18. E. ½ of NW.	80	acres.
Sec. 18. Lot 3	43.26	acres.
Sec. 19. Lot 17	0.93	acres.

Please notice, however, that where decimals are used there are always two.

SILVICULTURE

Timber Sale Advertisements—

Circular letter SM of April 22, 1908, directs that notices of sale be signed by the supervisor without giving his title. Instances have occurred where inquiries in regard to sale so directed to supervisors, who were in the field, have remained unopened, because they were taken to be personal mail. Hereafter in Class B advertised sales the fourth line of the notice of sale, as given in the above circular letter, should read "addressed to Forest Supervisor, ... National Forest, ... (address),"

and the last sentence should read "For further information and regulations governing sales, address Forest Supervisor, ... National Forest, ... (address)." All mail addressed in this way should be opened by the Forest officer in charge of the office. In District Foresters' sales the same change should be made in the last sentence of the notice of sale.

Rangers Authorized to Make Class A Sales—

Since no record of rangers' timber sales is kept in the District offices, it is no longer necessary for supervisors to send to the District Forester the names of Forest officers authorized to make Class A sales. This does not mean, however, that it is no longer necessary for supervisors to authorize rangers to make such sales, but simply that the District Forester does not need to be advised when such authorization is given to a ranger.

Correction of Form 874-a—

Form 874-a has a typographical error. The volume for a tree of 90 feet in height and 18 inches in diameter should read 375 instead of 275.

Timber Sale Reports—

In all sales the amount should not be included under "Timber Sold" in the monthly report (Form 949) until the agreement has been finally approved. Even where advance cutting is allowed this should not be shown as timber sold until final approval of the agreement (not the application). The advance cutting is adequately shown under the column "Timber Cut."

GRAZING

Collection and Identification of Forage Plants—

The Forest Service employs a consulting expert to identify and to determine the properties of all forage plants and grasses which are submitted for identification by Forest officers. Supervisors who desire to determine the character and properties of plants growing upon their Forests may do so by submitting specimens of the plants to the Forester with a request for their classification.

During the past season many collections of flowering plants and grasses have been submitted by Forest officers for identification. In many cases the specimens have been sent in without being numbered, and, as a result, it has been necessary to return the entire collection in order to give the collector the name and properties of each. This not only causes delay and trouble in repacking, but makes improper identification probable, due to the mixing of labeling tags and plants.

Hereafter Forest officers submitting specimens for identification should collect two specimens of each plant. The two samples should be labeled with the same number and same date, one sample to be sent to the District office for identification and the other retained in the supervisor's office for reference.

The specialist who identifies the plant can then report the scientific name and properties of each by referring to its number as follows:

Number.	Scientific name.	Common name.	Forage value.
1.	Bromus inermis.	Awnless Brome grass.	Excellent.
2.	Delphinium menziesii.	Purple larkspur.	Poisonous.

On receiving such a report from the specialist the Supervisor should refer to his specimen of No. 1 and record the date that it was secured.

For methods of collecting, labeling, and mounting plant specimens, the pamphlet issued by the Forest Service April, 1909, "Suggestions for the Collection of Range Plant Specimens on National Forests," should be consulted.

Permits in Exchange for Use of Private Lands—

A modification of the regulation in reference to the use of private lands has been made and hereafter applications for permits on Form 925 will be made only when it is desired to waive the right to the exclusive use of private lands in exchange for a permit to graze stock upon the National Forest. Form 925 has been revised to meet the requirements of the new regulation and a supply of the new form should be secured by requisition. Permits for crossing the Forest to reach private lands, the right to the exclusive use of which is not waived, will be issued on Form 874–17 under the provisions of the regulation governing crossing permits.

Revised Regulations and Instructions—

The fourth revision of the grazing regulations and instructions, approved by the Secretary, to take effect January 1, 1910, is contained in the grazing section of the new Use Book. This revision has just been published and is ready for distribution by requisition on the Supply Depot at Ogden. Positively no changes will be made in these regulations or instructions during the calendar year of 1910, unless such action is required by an act of Congress or for some exceptionally important reason. Recommendations for modifications of the regulations or instructions, except as mentioned, will be filed for consideration in the issuance of instructions for the season of 1911.

Reports on Predatory Animals Killed—

In accordance with the new instructions, all rangers and guards, other than those appointed as hunters, will report, at the time of making their regular quarterly report, the number of predatory animals killed by them. Form 343 has been revised so that it may be used for this purpose as well as by hunters in making their monthly reports.

Rangers' Quarterly Reports—

The rangers' monthly report on grazing conditions within the district under their control has been discontinued. A quarterly report will be required in its place for the quarters ending June 30 and September 30 on all Forests, and for the quarters ending December 31 and March 31 on districts where more than 50 per cent of the total number of stock allowed is grazed during the winter season. Full instructions are given on Form 658, which has been revised to meet the new requirements, and may be had upon requisition.

PRODUCTS

Information Desired on Uses of Woods—

The Branch of Products is gathering information on the uses of American woods. A statement is being prepared which gives for each species its historical uses and explains the reasons why it has entered into or been abandoned for any particular

use. Present uses are given and a discussion included of the qualities of the wood which fit it for specific uses.

Any member of the Service who gains information regarding the use of any timber in a way not commonly known should report the matter, through the proper Office or Branch, to the Forester for the information and aid of the Branch of Products.

Fiscal Agent for Branch of Products—

Beginning January 1, 1910, a District Fiscal Agent will be assigned to the Branch of Products and will be located at Madison, Wis. Members of the Branch of Products, who have heretofore submitted accounts to the Washington Office, will hereafter submit them to the District Fiscal Agent, 1610 Adams street, Madison, Wis.

SERVICE PUBLICATIONS ISSUED IN DECEMBER

Circular 171. The Forests of the United States: Their Use.
Circular 172. Methods of Increasing Forest Productivity.
Circular 174. Reproduction of Western Yellow Pine in the Southwest.

CUMULATIVE INDEX TO SERVICE NOTES AND ORDERS

(JULY–DECEMBER)

[Numbers in parentheses after the month indicate page]

Absence of District Forester, Chief of Office to act; July (25).
Accounts payable from more than one appropriation; November (153).
Analysis of Forest disbursements (S. O. 32); July (32).
Appointees, names of; December (186).
Ashley National Forest, change in administrative boundary; August (60).
Atlas, correction ink for; July (27).
Badges, disposal of discarded; November (154).
Beaverhead National Forest, change in administration; August (60).
Boundary notices and fire warnings; December (186).
how to post; September (92).
Bunch, J. W., timber trespass; August (60).
Calendar, Forest Service for 1910; December (185).
Cannon, Thomas, suit against; September (91).
Civil service eligibles; December (186).
Claims, coal, held for cancellation; September (91).
made in good faith, no report on; July (26).
procedure in final-proof hearings; July (25).
reports, amendment of instructions on; August (59).
identification on; July (26).
to show adverse facts; August (59).
Coal claims held for cancellation; September (91).
Commercial power plants, definition; October (123).
Complaint and charges should be fairly discussed; December (185).
Coronado National Forest, change in administration; September (92).
Correction ink for Forest Atlas; July (27).
Dating maps and papers; July (27).
Diaries, to be kept by each member of Service (S. O. 37); October (125).
Employment outside the Forest Service; November (154).
Entiat Lumber and Power Co., suit against; September (91).
Euster, W. F., fined for fire trespass; December (185).
Explanations unnecessary on vouchers; July (26).
Express charges, against individual letters of authorization (S. O. 30); July (31).
Filing applications for positions; December (186).
Final-proof hearings, procedure in; July (25).
Fire request, Form 445; December (186).
trespass, legal proceedings in; August (59).
W. F. Euster and Jack Huston fined for; December (185).
warnings and boundary notices; December (186).
Form A voucher, instructions regarding use of, November (153).
4, or form A, voucher, instructions regarding use of; November (153).
22, not to be kept for 1910; July (32).
25, use of (S. O. 38); October (125).
26, discontinued (S. O. 38); October (125).

Form 99, not to give analysis of Forest disbursements; July (31).
159, rendered quarterly; September (95).
256, use of; July (28).
347, revised; October (123).
445, should be given the fullest use; December (186).
621, record on; July (27).
653, instructions for filling out; July (27).
763, use of; July (28).
861-G, new form, notice to grazing applicants; December (187).
874-8, rangers to retain duplicate; September (95).
874-14, discontinued; September (95).
949, instructions for report on; December (187).
use of; September (93).
977, preparation or report on; July (27).
Free use, procedure in (S. O. 36); September (95).
Freight bills of lading, numbering of; October (123).
charges, against individual letters of authorization (S. O. 30); July (31).
procedure when impossible to secure in advance; September (92).
shipments, procedure in (S. O. 34); August (64).
Garces National Forest, change in administration; September (92).
Grazing applicants, new form of notice to; December (187).
fees, uniform schedule of; December (187).
permits, application for, numbering; August (61).
record of; July (27).
privileges, form of waiver; July (28).
without permit, indictment for; November (153).
Homesteads, second entries, error in Use Book; July (26).
Hopper, Jas. A., indicted for criminal trespass; December (185).
Huston, Jack, fined for fire trespass; December (185).
Initialing in supervisors' offices; December (185).
Insect control, cooperation with Bureau of Entomology; October (124).
Law Report, amendment Manual of Procedure; July (25).
Liability statement, to be prepared quarterly (S. O. 35); September (95).
Library books, purchase of; November (155).
Lodging at ranger stations, reimbursement for; December (186).
Manzano National Forest, change in administration; August (60).
Manual of Procedure, amendment, law report; July (25).
Mensuration tables, to be filed in District offices; September (93).
Monthly service report, revised form for; October (123).
National Forest names; November (155).
Nonexpendable property, care in receipts and reports; August (61).
Northern Pacific, action against; October (123).
Notice to grazing applicants, new form 861-G; December (187).
Notification of receipt, discontinued; October (125).
Oregon Caves National Monument, created; August (60).
Outstanding accounts, to be submitted; August (61).
Page, Charles, fined; August (59).
Pastures, survey of; July (28).
Patent, applied for by Harry Tiemann; December (184).
granted to John M. Nelson, jr.; December (184).
Patterson, Zilpha, criminal proceedings discontinued in case of; December (185).
Permits, applications for grazing, numbering of; August (61).
crossing: regulation 66; November (155).
grazing, record of; July (27).
to purchasers of stock, renewal of; July (28).
use, authority to issue; July (28).
Positions, filing applications for; December (186).
Products work, transfer of; November (155).
Purchasers of stock, renewal of permits to; July (28).
Railroad rights of way, water power to be considered; September (91).
Rebello, J., criminal proceedings against; August (60).

Receipts and refunds, record and report of (S. O. 33); August (63).
Refunds (S. O. 33); August (63).
Reimbursement accounts, must be separate; August (61).
for lodging at ranger stations; December (186).
Renewal of permits to purchasers of stock; July (28).
Reports, claims, identification on; July (26).
instructions on; August (59).
on claims made in good faith; July (26).
Requisitions for supplies, to be sent to Ogden; August (61).
S. O. 39; December (189).
Right of way, policy of procedure in clearing; December (184).
Rollins, J. R., criminal proceedings against; August (59).
Saloon trespass, proceedings in; August (60).
San Luis National Forest, change in administration; August (60).
Second entries, not authorized on claims relinquished since February 8, 1908; July (26).
Seed production report, preparation of; July (27).
Service Order 30, freight and express charges; July (31).
31, recapitulation accompanying vouchers; July (31).
32, analysis of Forest disbursements; July (32).
33, record and report of receipts and refunds; August (63).
34, amendment of S. O. 30; August (64).
35, monthly liability statement; September (95).
36, procedure in free use; September (95).
37, diaries; October (125).
38, notification of receipt; October (125).
39, amendment of S. O. 27; December (189).
Signatures, correct use of; September (92).
Spray, Tolle A., sentenced; August (59).
State's preferential right, opinion on; November (153).
Strong boxes, to make mice proof; November (154).
Subvouchers, preparation of; September (92).
Sullivan, John, criminal proceedings against; August (59).
Supervisors' advertised sales, delegation of authority in; August (61).
Supplies, to be secured from Ogden; August (61).
Survey of pastures, rule for; July (28).
Timber cut and sold, submitting report on; December (187).
sales, supervisors' advertised, delegation of authority in; August (61).
use of Form 949; September (93).
settlements, report of; September (93).
trespass, filling out Form 653; July (27).
Trails, location of grades; September (91).
November (154).
Trespass, fire, proceedings in; August (59).
indictment for grazing without permit; November (153).
report, extra copies of; December (184).
saloon, proceedings in; August (60).
time for notifying; July (28).
timber (criminal); December (185).
filling out Form 653; July (27).
indictment returned; August (60).
Uniforms, care in ordering; July (26).
Uinta National Forest, change in administration; August (60).
Use Book, error in paragraph on second entries; July (26).
Vermetti, J., criminal proceedings against; August (60).
Vouchers, unnecessary explanations on; July (26).
stamping; November (154).
Waiver of grazing privileges, form of; July (28).
Water powers, to be considered in reports on railroad rights of way; September (91).
Weiser National Forest, change in administration; August (60).

O

Issued June 1, 1910

UNITED STATES DEPARTMENT OF AGRICULTURE
FOREST SERVICE

HENRY S. GRAVES, Forester

Walter Mulford

June Field Program

1910

This program of field work and assignments in the Forest Service is issued on the first day of each month and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed and reference to projects for which plans have not been matured are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all Districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this or the April program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

FIELD PROGRAM FOR JUNE, 1910

ASSIGNMENTS AND PROJECTS

NOTE.—Only Assignments and Projects which correct the April Field Program are listed. Inclosure in parentheses indicates that the corresponding entry in the April program may be regarded as dropped. All other entries indicate either a modification of the corresponding entry in April or the insertion of a new entry. *This program entirely supersedes the May program*, so far as assignments and projects are concerned.

OPERATION

(RECORDS)

(H. B. CRAMER, Chief, transferred to District 4.)

GEOGRAPHY

C. A. KOLB, Acting Chief.

SILVICULTURE

STATE AND PRIVATE COOPERATION

PROJECTS

Eastern States—

Preliminary examinations of forest land, in cooperation with private owners—*Add* J. M. BRISCOE; *omit* A. W. WILLIAMSON, Washington, D. C.

Louisiana—

(Preparation of report on forest conditions, in cooperation with the State).

Virginia—

(Preliminary examination of forest conditions, in cooperation with the State, and examination of forest land, in cooperation with private owners).

Wisconsin—

Study of forest conditions, in cooperation with State Board of Forestry—*Omit* G. T. BACKUS, Madison.

Marking timber, Menominee Indian Reservation—W. W. ASHE, E. D. CLARKE, and G. T. BACKUS, Neopit.

General—

Study of the relation of forest taxation to forestry and to the future timber supply—FRED. R. FAIRCHILD, New Haven, Conn.

SILVICS

PROJECTS

General—

(Comparative study of silvical characteristics of North American species.)

Florida—

Study of eucalypts—R. ZON and J. M. BRISCOE, Washington, D. C.

Maryland and Virginia—

Remeasurement of permanent sample plots—W. D. STERRETT and W. B. BARROWS, Washington, D. C.

LANDS

O. C. MERRILL, Engineer.

PRODUCTS

[A complete reorganization of the Products work makes it necessary to substitute the following for the entire Products organization, assignments, and projects, as given on pages 306–308 of the April Program:]

WM. L. HALL, Assistant Forester, in Charge, Madison, Wis.

LABORATORY

In cooperation with the University of Wisconsin, Madison, Wis.

MCGARVEY CLINE, Director.
H. S. BRISTOL, Assistant Director.
HOWARD F. WEISS, Assistant Director.

ENGINEERING

ROLF THELEN, in Charge.

MAINTENANCE

WM. H. KEMPFER, in Charge.

CHEMISTRY

E. BATEMAN, in Charge.

PULP AND PAPER

E. SUTERMEISTER, in Charge.

TIMBER PHYSICS

H. D. TIEMANN, in Charge.

TIMBER TESTS

J. A. NEWLIN, in Charge.

WOOD DISTILLATION

L. F. HAWLEY, in Charge.

WOOD PRESERVATION

F. M. BOND, in Charge.

PATHOLOGY

In cooperation with the Bureau of Plant Industry.
C. J. HUMPHREY, in Charge.

WOOD UTILIZATION

H. S. SACKETT, in Charge, Fisher Building, Chicago, Ill.

WASHINGTON OFFICE

O. T. SWAN, in Charge.

DISTRICTS

DISTRICT 1

Montana, northeastern Washington, northern Idaho, northwestern South Dakota, northern Michigan, northern Minnesota, and southwestern North Dakota.

Office, Hammond Block, Missoula, Mont.

LAW

W. M. AIKEN, District Law Officer (on leave).
HAROLD H. CLARKE, Assistant District Law Officer.

ACCOUNTS

JOHN A. URBANOWICZ, District Fiscal Agent.
(H. I. LOVING, transferred to District 2.)

OPERATION

R. H. RUTLEDGE, Assistant District Forester, transferred to Lands.

SILVICULTURE

Timber sales, J. L. COBBS, Forest Assistant.

PROJECTS

Idaho—

Examination of timber, reconnaissance estimates: Coeur d'Alene National Forest—F. B. BRUNYATE and W. B. WILLEY, Wallace; Kaniksu National Forest—R. C. JONES and M. H. NOLFF, Newport, Wash.; Pend d'Oreille National Forest—F. A.

GAYLORD, E. M. HORTON, A. S. HOPKINS, E. G. DUDLEY, H. W. DENANCREDE, and J. R. GILLIS, Sandpoint.

Montana—

Examination of timber, Deerlodge National Forest—*Add* N. C. CASE. (J. L. COBBS transferred to District Office.)

Northern Pacific estimates—*Omit* F. A. GAYLORD, C. JONES, and F. B. BRUNYATE.

Silvics

PROJECTS

Idaho—

Collection of data for volume and yield tables—F. I. ROCKWELL, Newport, Wash.

Montana—

Collection of data for volume and yield tables—C. N. WHITNEY, Anaconda.

LANDS

R. H. RUTLEDGE, Assistant District Forester, in Charge.

NATIONAL FORESTS

IDAHO

Coeur d'Alene—*Add* ROSCOE HAINES, Deputy Forest Supervisor.

MONTANA

Blackfeet—C. N. WHITNEY, Forest Assistant, transferred to a project at Anaconda.

Cabinet—*Add* CLAUDE W. GRIFFIN, Deputy Forest Supervisor.

Madison—E. D. FLETCHER, Deputy Forest Supervisor—*Add* JOS. W. BUTLER Forest Assistant.

Missoula—RUSSEL G. POND, Deputy Forest Supervisor, resigned.

WASHINGTON.

Kaniksu—*Add* CHAS. A. FISHER, Deputy Forest Supervisor.

DISTRICT 2

Colorado, Wyoming, South Dakota, Nebraska, and western Kansas.

Office, Majestic Building, Denver, Colo.

ACCOUNTS

H. I. LOVING, District Fiscal Agent.

(JOHN A. URBANOWICZ, transferred to District 1.)

SILVICULTURE

A. K. CHITTENDEN, Assistant District Forester, transferred to Washington Office.

Timber Sales

PROJECT

Colorado—

Reconnaissance of Arapaho National Forest—W. C. Bennett, Fraser.

Silvics

PROJECT

Colorado—

Fremont Experiment Station, meteorological, planting, and other experiments—*Omit* L. C. CHAPMAN, assistant, separated.

(**Cooperation,** Bureau of Entomology.)

(PROJECT)

(Location of insect-infested timber and determination of methods of local control) W. D. EDMONSTON transferred to District 6.

LANDS

H. M. BOOTH, Acting, in Charge.

PRODUCTS

PROJECTS

Timber Tests—

Timber-testing laboratory in cooperation with the University of Colorado, Boulder, Colo.—A. D. WOLFF and H. V. BLANK furloughed.

Collection of test material.

Wood Preservation—

Study of wood-preservation methods for permanent improvement work on National Forests in District 2—*Omit* D. L. CARMODY, resigned; *add* H. S. BETTS, Denver, Colo.

Preservative treatment of timber used in irrigation work, in cooperation with the Denver Reservoir and Irrigation Company—H. M. MASON, Jr., Denver, Colo.

Wood Utilization—

Study of wood-using industries in District 2—*Omit* D. L. CARMODY, resigned, and H. M. MASON, Jr.; *add* H. S. BETTS, Denver, Colo.

NATIONAL FORESTS

COLORADO

Arapaho—LEE E. COOPER, Acting Forest Supervisor. (C. G. POOLE transferred to Bonneville, Sweetwater, National Forest.)

Montezuma—R. W. ALLEN, Deputy Forest Supervisor.
San Juan, East—A. L. SWEITZER, Acting Forest Supervisor, Pagosa Springs (WU-G); PETER KEPLINGER, Forest Assistant.
San Juan, West—ERNEST W. SHAW, Forest Supervisor, Durango (WU-G).

WYOMING

Bonneville, Green River—FOSTER STEELE, Acting Forest Supervisor, Pinedale (WU-Am).
Bonneville, Sweetwater—C. G. POOLE, Forest Supervisor, Lander (WU-Am).
Bonneville, Wind River—H. EARL FRENCH, Acting Forest Supervisor, Dubois (WU-Am).

DISTRICT 3

Arizona, Arkansas, Florida, New Mexico, and Oklahoma.
Office, Strickler-Luna Building, Albuquerque, N. Mex.

SILVICULTURE

PROJECTS

Arizona—

(Collection of data for volume and growth study of woodland species.)

(Inspection of reconnaissance.)

Check scaling and instruction in sales administration on the Zuni, Sitgreaves, and Apache National Forests—L. E. JOHNSON, Gallup, N. Mex., Snowflake and Springerville, Ariz.

Reconnaissance of the Crook National Forest———, in charge.

Reconnaissance of the Apache National Forest—J. H. ALLISON, in charge temporarily; Springerville after June 15.

Arkansas—

(Reconnaissance of the Arkansas National Forest.)

Collection of data for volume and growth study of shortleaf pine—L. L. JANES, Hot Springs.

Florida—

(Reconnaissance of the Choctawhatchee National Forest.)

New Mexico—

(Check scaling and sale administration on the Gila National Forest.)

(Check scaling on the Datil National Forest.)

Check scaling on the Jemez and Carson National Forests—A. A. WYNNE, Santa Fe.

Check scaling and sale administration on the Pecos National Forest—NELSON L. LE GRANDE, Scaler, Embudo.

Inspection of reconnaissance—J. H. ALLISON, Silver City.

Reconnaissance of the Pecos National Forest—H. G. CALKINS, in Charge, Santa Fe.

Reconnaissance of the Gila National Forest—BARRINGTON MOORE, in Charge, Silver City.

LANDS

FRANK C. W. POOLER, Assistant District Forester, in Charge.

NATIONAL FORESTS

ARIZONA

Coconino—

Coconino Division: WILLARD M. DRAKE, Acting Forest Supervisor, Flagstaff (WU, P—WF); E. H. CRABB, Deputy Forest Supervisor; J. C. KIRCHER, Forest Assistant.

Tusayan Division: STANTON G. SMITH, Forest Supervisor, Flagstaff (WU, P—WF). FRANK C. W. POOLER transferred to Lands.

NEW MEXICO

Carson—*Add* HARRY C. HALL, Deputy Forest Supervisor.

DISTRICT 4

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona.

Forest Service Building, Ogden, Utah.

OPERATION

E. H. CLARKE transferred to Wasatch National Forest, as Forest Supervisor.

SILVICULTURE

Timber Sales

PROJECTS

Arizona—

Reconnaissance of Kaibab National Forest.—*Omit* L. CROWELL.

Idaho—

(Preparation of map and reconnaissance report of timber on Sawtooth National Forest.)

Reconnaissance of Salmon National Forest—C. P. WILBER, Forest Assistant, Salmon.

Reconnaissance of Pocatello National Forest—A. L. BROWER, Forest Assistant, Pocatello.

Inspection of timber sale supervision and examination of streams to determine log-driving possibilities, Weiser National Forest—D. F. SEEREY, Lumberman.

Inspection of timber sales on Targhee National Forest—D. F. SEEREY, Lumberman.

Reconnaissance of Targhee National Forest—C. E. DANSTON, Forest Examiner, St. Anthony.

Planting—*Add* L. CROWELL, Assistant.

PROJECT

Idaho—

Study of silvical qualities and growth of yellow pine, Weiser National Forest—E. R. HODSON, Weiser.

(**Silvics,** E. R. HODSON.)

LANDS

T. C. HOYT, Assistant District Forester, in Charge.

PROPERTY AUDIT

H. B. CRAMER, Chief of Records.

NATIONAL FORESTS

IDAHO

Boise—*Add* M. S. BENEDICT, Deputy Forest Supervisor.

Payette—CARL B. ARENTSON transferred to Fishlake National Forest. *Add* FRANK J. RYDER, Deputy Forest Supervisor.

Sawtooth—FRANK J. RYDER transferred to Payette National Forest.

NEVADA

Toiyabe—JAS. L. PELTON, Acting Forest Supervisor; M. S. BENEDICT transferred to Boise.

UTAH

Fishlake—CARL B. ARENTSON, Acting Forest Supervisor, C. L. SMITH transferred to Manti.

Manti—C. L. SMITH, Forest Supervisor; A. W. JENSEN transferred to District Office as Assistant District Law Officer.

Sevier—*Omit* FRANK W. SEAMAN.

Wasatch—*Add* E. H. CLARKE, Forest Supervisor, R. V. R. REYNOLDS transferred to Operation, Ogden.

WYOMING

Wyoming—H. E. WOOLLEY, transferred to Ogden as Land Examiner.

DISTRICT 5

California and southwestern Nevada.
Office, First National Bank Building, San Francisco, Cal.

(L. A. BARRETT, Chief of Claims, transferred to Lands.)

SILVICULTURE

Timber Sales

PROJECTS

(Examination of timber trespass and of proposed sale areas in the Lassen National Forest.)

Examination of proposed sale areas on the Plumas National Forest—*Omit* J. C. ELLIOTT.

Examination of timber trespass areas in the Shasta National Forest—C. H. ENSIGN, Lumberman, Sisson, Cal.

Supervision of sale operations on the Standard Lumber Company sale, Stanislaus National Forest—J. C. ELLIOTT, Lumberman, Sonora, Cal.

Examination of proposed sale to the Marsh Lumber Company, Plumas National Forest—SWIFT BERRY, Quincy, Cal.

Planting, C. A. KUPFER transferred to Products

PROJECTS

(Examination of proposed planting sites on the Santa Barbara National Forest.)

(Installation of a coniferous nursery on the Shasta National Forest.)

LANDS

L. A. BARRETT, Assistant District Forester, in Charge.

PRODUCTS

PROJECTS

Timber Tests—

(Testing laboratory in cooperation with the University of California, Berkeley, Cal.)

(Tests on redwood in cooperation with the California Redwood Association.)

Design of timber-testing laboratory for District 5—A. L. HEIM.

Wood Preservation—

Study of conditions on and near the Plumas National Forest, with a view to determine the feasibility of erecting and operating a portable treating plant.—C. STOWELL SMITH, San Francisco, Cal.

Collection of experimental woods for the Madison Laboratory—C. STOWELL SMITH, San Francisco, Cal.

NATIONAL FORESTS

CALIFORNIA

California—ALLAN H. HODGSON, Forest Supervisor; ERNEST BRITTEN furloughed.
Inyo—JOHN D. COFFMAN, transferred to Shasta.
Shasta—*Add* JOHN D. COFFMAN, Forest Assistant, and N. O. TORSTENSON, Planting Assistant.

DISTRICT 6

Washington, Oregon, and Alaska.
Office, Beck Building, Portland, Oreg.

OPERATION

(C. J. BUCK, Assistant District Forester, transferred to Lands.)

SILVICULTURE

Timber Sales

PROJECT

Oregon—
Reconnaissance of the Oregon National Forest—MAX ROTHKUGEL, Forest Assistant, Portland.

Washington—
(Scaling on the Snoqualmie National Forest.)
Scaling on the Olympic National Forest—EDWIN C. ERICKSON, Scaler, Olympia.
Reconnaissance of the Olympic National Forest—MAX ROTHKUGEL, Forest Assistant, Olympia.

GRAZING

T. P. MACKENZIE, Assistant District Forester, furloughed.

LANDS

C. J. BUCK, Assistant District Forester, in Charge.

PRODUCTS

PROJECTS

Wood Preservation—

(Preliminary report on the economy of the preservative treatment of mine timbers used by the Tacoma Steel Company.)

(Preliminary report on the economy of the preservative treatment of poles and ties used by the Tacoma Railway and Power Company.)

Construction and installation of an open tank treating plant in cooperation with the University of Washington Forest School—H. B. OAKLEAF and O. P. M. GOSS, Seattle, Wash.

Inspection of Northern Pacific test track in cooperation with District 1 and engineers of the Northern Pacific Railway Company—H. B. OAKLEAF, Portland, Oreg.

Wood Utilization—

(Study of the box industry in the Pacific Northwest.)

(Study of the market for and uses of forest products at Spokane, Wash.)

Study of the market for and uses of forest products in the Grays Harbor region of the State of Washington—J. B. KNAPP and J. F. SULLIVAN, Portland, Oreg.

Collection of wood for experimental and exhibit purposes at Madison, Wis.— H. B. OAKLEAF, Portland, Oreg.

Study of the market for and uses of forest products on the Olympic Peninsula in the State of Washington—J. B. KNAPP and JOHN F. SULLIVAN, Portland, Oreg.

NATIONAL FORESTS

ALASKA

Chugach—*Add* Am. to express offices.
Tongass—*Add* Am. to express offices.

OREGON.

Fremont—*Add* N. J. BILLINGS, Grazing Assistant.
Malheur—D. B. REYNOLDS, Deputy Forest Supervisor.
Oregon—MAX ROTHKUGEL, Forest Assistant, Oregon and Olympic Forests.

WASHINGTON

Chelan—D. B. REYNOLDS transferred to Malheur National Forest.
Columbia—*Add* H. O. STABLER, Forest Supervisor. HOMER ROSS, Deputy Forest Supervisor.
Colville—C. C. REID, Forest Supervisor.
Olympic—*Add* MAX ROTHKUGEL, Forest Assistant.
Snoqualmie—*Add* Am. to express offices.

SERVICE CHANGES IN MAY

APPOINTED

Grazing—

WILLARD WEBSTER EGGLESTON, Assistant Botanist.

District 1—

OPERATION: Forest Guards—HARRISON M. CRANE and HENRY J. LAMPE, Absaroka National Forest; WALTER J. HYDE, Beartooth National Forest; JAMES A. LA MARCHE, Beaverhead National Forest; HERBERT H. BISSELL, FREDERICK F. CLARK, JOSEPH C. COSLEY, MARION E. HEIKES, and HARRY W. SHELLEY, Blackfeet National Forest; WILLIAM V. HAMBY, ALBERT N. PETERSON, HARVEY H. RENSHAW, HUBERT H. RENSHAW, FRANK E. SHAW, DAVID M. TINNEY, and WILMOT C. TURNER, Clearwater National Forest; HOWARD DRAKE, CHARLES RANEY, and THOMAS E. ROBINSON, Coeur d'Alene National Forest; ROSCOE C. TOOKE, Deerlodge National Forest; WILLIAM E. KIERSTEAD, Jefferson National Forest; FRANK E. PORTER and JOSEPH E. YOUNG, Kaniksu National Forest; JOHN D. BROOKS, JAMES DENNIS, ANDREW HALVERSON, JOHN C. KETRIDGE, ASHLEY J. ROCHE, PERRY R. ROGERS, and RUSSELL V. TANNER, Kootenai National Forest; JAMES E. ADAMS, Lewis and Clark National Forest; SIDNEY C. ARMITAGE and R. A. PHILLIPS, Lolo National Forest; WALTER D. HOFER, GEORGE B. ROWE, and ROBERT L. TOWNSEND, Madison National Forest; HARRY A. GOODALE and CALVIN HAYWARD, Michigan National Forest; VIRGIL W. CHANDLER and PAUL HAWKINS, Minnesota National Forest; GUST KEATING and EDWARD KENT, Missoula National Forest; JOHN WESTON GALBRAITH, JOHN KOKTA, ED. A. LONG, SILAS MCPHERSON, and WILLARD N. MICHAEL, Nezperce National Forest; WILLIAM EDWARD BLUME and CLIFFORD E. MIDDLETON, Pend Oreille National Forest; WALTER L. EISENACH, JOHN E. MULLIGAN, JOHN SCHAEFER, and LEWIS J. WHITE, Superior National Forest. JACOB H. CAMP, Assistant Forest Ranger, Custer National Forest.

LANDS: JOHN H. CLARY and FRANK A. FOOTE, Expert Miners.

DISTRICT OFFICE: DOROTHEA C. DAVIS, Clerk, Stenographer, and Typewriter.

District 2—

OPERATION: Assistant Forest Rangers—BENJAMIN I. BEATY and MAITLAND E. BRADLEY, Sopris National Forest; K. G. BROWN, Uncompahgre National Forest; FRED S. CUENIN and ROSENDO ORTIZ, Cochetopa National Forest; DON G. LA FONT and JOHN N. MILLION, Rio Grande National Forest; LEE D. LEEMAN, Sundance National Forest; LEIGH W. MCGREW, ROBERT O. THROCKMORTON, JESSE E. WOLFE, and WALTER T. SCHMEHL, Arapaho National Forest; BERT B. MORTON and JAMES L. WARNER, Bighorn National Forest. JOHN SCHUTTLER, Gunnison National Forest; JASPER F. SPOONER and SILAS H; WRIGHT, Pike National Forest; ALBERT SUTER, White River National Forest.

Forest Guards: GUY TEFFT, San Juan (W) National Forest; CARL BURSTER and ERNEST A. BURSTER, San Juan (E) National Forest; WINFORD F. BATES, RAY CLARKE, and LON H. ULRICH, Medicine Bow National Forest; JOHN P.

KILLOREN, Jr., Black Hills National Forest; EDWARD A. PARKS, EZRA H. O'NEAL, ARCHIE R. SMETHURST, and FRANK E. STAPLETON, Routt National Forest; CARROLL S. BAIRD and ORVIL WILSON, Rio Grande National Forest; RICHARD R. RIGGS, CLIFTON LISTER, and MILTON E. AMES, Hayden National Forest; M. B. PIDCOCK and ENOCH BEECH, White River National Forest; ALEX H. LIDDIARD, Shoshone National Forest; GLEN WILLIAMS, Cochetopa National Forest.

WILMER C. BENNETT, Expert, Arapaho National Forest; CORNEY O. PRESTON, Agent, Kansas National Forest; HENRY REINSCH, Agent, Pike National Forest; ROBERT E. PRATT, Surveyor, Sundance National Forest; HENRY R. HARRISON, Surveyor, Battlement National Forest; EDNA C. HOCKING, Forest Clerk, Montezuma National Forest.

DISTRICT OFFICE: F. RUTH WATERS, Clerk, Stenographer, and Typewriter.

District 3—

OPERATION: Assistant Forest Rangers: EDGAR M. TWITTY, WILLIAM W. WILSON, JOHN C. VANDEVIER, MACK O. DUMAS, JESSE I. BUSHNELL, and JOHN A. ADAMS, Coconino National Forest; ROBERT P. A. JOHNSON, HARRY F. WADE, and HARRY E. VOTE, Carson National Forest; HOWARD B. WAHA, LEO E. CARRON, WM. H. CRISWELL, DALLAS F. WELLS, and ALBERT C. WAGNER, Datil National Forest; WM. W. DAY, Choctawhatchee National Forest; ROBERT MUNRO, PERCY REID, and SAMUEL A. FREY, Gila National Forest; FRED A. WEIR, JESSE A. BRUBAKER, WM. J. ANDERSON, JOHN W. BELK, WM. E. CARTER, and VERNE RHOADES, Alamo National Forest; DAVID L. MACBEATH, Coronado National Forest; CLARENCE M. JOHNSON, Zuni National Forest; JOHN V. HOBBIE, JOS. SWAIN, STEPHEN Q. GARST, and JOHN L. BRYAN, Jr., Lincoln National Forest; JAMES W. GIRDNER, Tonto National Forest; CLARENCE H. WILSON, ARTHUR J. WELLS, and JAMES C. BERTHELSON, Jr., Jemez National Forest; GEO. M. NYCE, WM. R. ASHURST, JOS. L. HENDERSON, CYRIL BYRNE, and VIRGIL D. SMITH, Sitgreaves National Forest; ROY H. MILLER, FRANCIS L. KIRBY, and HAROLD GREEN, Crook National Forest.

Forest Guards; JOHN L. WETHERED, Chiricahua National Forest; JESSE JOHNSTUN, Zuni National Forest; LESLIE CHAPPELL, Arkansas National Forest; WM. S. DOUGHERTY, Pecos National Forest; HENRY J. WILKERSON, Carson National Forest.

EMMA CAMPBELL, Forest Clerk, Choctawhatchee National Forest.

DISTRICT OFFICE: FRANK C. KEEFER and HELEN B. SMITH, Draftsmen.

District 4—

OPERATION: Assistant Forest Rangers—MARSHALL C. CROMWELL, CHARLES O'KEEFE, and JOHN T. SIDERS, Boise National Forest; WALLWIN T. JOB and JOHN A. WOOD, Challis National Forest; WILLARD S. SORENSON, Dixie National Forest; WM. SCOTT BARTON, Fillmore National Forest; CHARLES E. BUTLER, MAURICE B. CROSS, OLIVER A. FEE, ALVIN W. GARRISON, BURTON JARVIS, CHARLES H. KEAS, and CARL STOCKBRIDGE, Humboldt National Forest; CYRUS T. MCCALL, and WALTER G. MANN, Idaho National Forest; DUNCAN M. LANG, Kaibab National Forest; FRED W. STRONG, La Sal National Forest; ALSTON D. MORSE and FREDERICK L. MOTT, Lemhi National

Forest; FRANK S. MOORE, GLENN STRAWN, and FRANCIS WALLIS, Payette National Forest; FRED H. CHASE and AUGUST A. SCHROEDER, Salmon National Forest; ERNEST A. RENNER and WILLIAM H. THOMPSON, Targhee National Forest; R. A. TEMPEST, Palisade National Forest; CHARLES H. DEVINEY and ALBERT GUNTHER, Teton National Forest; ODO R. THOMAS, Uinta National Forest; D. L. DAVIS, LOUIS R. HILLMON, LEROY LINDSAY, and NICHOLAS S. PHELAN, Weiser National Forest; GEORGE L. HOWLAND, FRANK A. TRAVIS, and GEORGE W. YEAMAN, Wyoming National Forest.

Forest Guards—F. L. BREIDENSTEIN, Boise National Forest; CALVIN T. HARDIN, Idaho National Forest; W. H. THAYER, Payette National Forest; W. DOUGLAS HOOD, Targhee National Forest; JOHN FEE and RICHARD H. OHL, Teton National Forest; WILLIAM E. GIBBS and ARBA A. MCKENZIE, Weiser National Forest.

District 5—

OPERATION: Forest Guards—F. M. HARDIN, Lassen National Forest; HERSCHEL H. SIMPSON, Shasta National Forest; WILLIAM HAYES, Plumas National Forest; JAMES H. MCDONALD, Sequoia National Forest; LEONARD C. BEAN, Trinity National Forest; WILLIAM S. CAVANAUGH, California National Forest; ARTHUR B. ALLEN, Sequoia National Forest; MARK H. MIDDLETON, California National Forest; J. RAY STEPHENS, Stanislaus National Forest; LEWIS D. LADD, Mono National Forest; OBERT O. BUNDY, California National Forest; F. J. FREEMAN, Mono National Forest; WALTER BONNER, Mono National Forest; PHILIP C. BAUER, California National Forest; CHARLES W. BATES, California National Forest; GRANT N. COOPER, California National Forest; EDMUND M. HUFFORD, Lassen National Forest; ELISHA C. FINNEY, California National Forest; WILLIAM C. DUNCAN, Trinity National Forest; JOSEPH H. MANNY, Sequoia National Forest; BENJAMIN SCHUSTER, Klamath National Forest; GEORGE SILVEY, Sequoia National Forest; JULIUS BRANNAN, Trinity National Forest; CLARENCE WYATT, Mono National Forest; HOWARD M. WILSON, Tahoe National Forest; HOWARD HUFFORD, Lassen National Forest. CHARLES L GILMORE, Timber Cruiser, Mono National Forest. FRED. W. BROSE, Clerk, Lassen National Forest.

District 6—

OPERATION: Forest Guards—J. G. BEHRENS, FRANK BIART, JOHN M. BOGGS, OLLIE M. BRAMEL, J. G. BURGHARDT, CLAYTON DIVER, CHARLES F. HUDSON, EVAN JONES, FRANK KRIESCHE, Jr., WILLIAM J. MARTIN, GEORGE E. RENN, H. R. STEELE, and WILLIAM C. SWEAT, Chelan National Forest; JACK BROWN and GEORGE L. JOHNSON, Chugach and Tongass National Forests; CHARLES FREUDENBURG, WILLIAM F. JEBE, HARVEY J. LICKEL, JOHN M. PRATT, and ERASMUS E. ROBERTSON, Columbia National Forest; ROY BRITTAIN and CHARLES ROESCHEISEN, Colville National Forest; C. W. REED and C. E. THANBRUE, Fremont National Forest; C. E. TUREMAN, Malheur National Forest; JAMES O. F. ANDERSON, EARL G. FORBES, and V. M. MCKIBBEN, Olympic National Forest; HERMAN AMOS, HENRY ASCHOFF, HORACE BERRY, W. B. DAVIDSON, FRANK DOTY, JOSEPH F. DOUGLAS,

Carl C. Hill, and Edward Sischo, Oregon National Forest; M. Donald Knapp, Snoqualmie National Forest; William R. Gardiner, R. J. Hatfield, Homer J. Ireland, E. H. Lough, U. F. McLaughlin, and Floyd S. Matthews, Umpqua National Forest; Thomas F. Lathrop, Ivan Stevens, and A. B. Turner, Wallowa National Forest; Carl E. Bell, Grover C. Burch, Charles Larkey, James A. Monahan, and Henry Soll, Washington National Forest; Andrew J. Graden, Albert Jeffreys, John H. Russell, Earle W. Staninger, and Elmer G. Thomas, Wenaha National National Forest; Edmond B. Canby, Squire J. Santmyer, Jason P. Williams, Wenatchee National Forest; Walter Allison, I. E. Jones, Frank W. Mattson, Charles E. Poole, and Edwin J. Young, Whitman National Forest.

Benjamin B. Page, Forest Guard (Hunter), Deschutes National Forest; Frederick Hackler, Forest Guard (Hunter), Oregon National Forest; John W. Lynch, Forest Guard (Hunter), Wenaha National Forest; Reginald A. Bradley, Assistant Forest Ranger, Fremont National Forest; Dexter B. Reynolds, Deputy Forest Supervisor, Malheur National Forest.

Lands—Antoine M. Caisse, Forest Clerk; George F. Mead, Law Examiner.

RESTORED TO THE ROLLS

District 1—

Operation: John E. Thompson, Assistant Forest Ranger, Flathead National Forest.

District 2—

Operation: Asa W. Stuckey, Assistant Forest Ranger, Nebraska National Forest.

District Office: Gertrude A. Bunger, Clerk, Stenographer, and Typewriter.

District 3—

Operation: Wm. C. Roderus and Geo. R. Yorke, Assistant Forest Rangers, Prescott National Forest.

District 4—

Operation: Amos N. Davis, Assistant Forest Ranger, Teton National Forest.

District 5—

Operation: Arthur R. Meyer, Deputy Forest Ranger, Angeles National Forest; Stephen J. Rhyne, Assistant Forest Ranger, Santa Barbara National Forest; William F. Blackburn, Assistant Forest Ranger, Santa Barbara National Forest; Harry H. Peregoy, Forest Ranger, Inyo National Forest; John E. Thackara, Assistant Forest Ranger, Shasta National Forest; William C. F. Nespital, Engineer, Inyo National Forest; Elsie C. Shoup, Clerk, Trinity National Forest.

Silviculture: Rufus S. Maddox, Forest Assistant, Plumas National Forest.

District 6—

Operation: Assistant Forest Rangers—Hubert E. Derrick and Douglas C. Ingram, Deschutes National Forest; Marion C. Burlingame, Orange S. Callison, Raymond N. Gribble, John B. Senecal, and Hiram R. Wilcox, Oregon National Forest; Walter J. Jones and William B. Milbury, Siskiyou National Forest; Oscar C. Houser and Clarence J. Ingram, Umpqua National Forest. Georgene L. Miller, Forest Clerk, District Office.

CHANGE IN DESIGNATION

Silviculture—

SILVICS: EARL H. FROTHINGHAM, from Chief, Section of Compilation, to Forest Assistant.

District 3—

DANIEL W. ADAMS, from Lumberman to Forest Supervisor.

District 4—

TIMOTHY C. HOYT, Forest Supervisor to Assistant District Forest, Ogden, Utah.

EDWIN H. CLARKE, Assistant Forester, to Forest Supervisor, Wasatch National Forest.

ROBERT V. R. REYNOLDS, Forest Supervisor, to Forest Examiner, Ogden, Utah.

TRANSFERRED

Grazing—

EDWARD L. GREENE, Expert, from Bureau of Plant Industry.

Products—

ORRINGTON T. SWAN, Forest Assistant, from District 5.

District 2—

OFFICE OF SOLICITOR: GEORGE E. TROWBRIDGE, Assistant District Law Officer, District 5, to District Law Officer, District 2.

SILVICULTURE: A. K. CHITTENDEN, Assistant District Forester, to Washington Office; CLAUDE R. TILLOTSON, Forest Assistant, from Washington Office to District Office.

District 4—

OPERATION: EDWIN H. CLARKE, from District Office to Wasatch National Forest, Salt Lake City, Utah; ROBERT V. R. REYNOLDS, from Wasatch National Forest to District Office; CARL B. ARENTSON, from Payette National Forest to Fishlake National Forest; NELLIE NEAL, Clerk, Stenographer, and Typewriter, from District Office to District 6; ELIZABETH M. COOK, from District 6 to District Office.

SILVICULTURE: FRANK J. RYDER, from Forest Assistant, Sawtooth National Forest to Deputy Forest Supervisor, Payette National Forest.

District 5—

ELSIE C. SHOUP, Clerk, District 2 to Trinity National Forest. FRED W. BROSE, from Reclamation Service to Lassen National Forest.

SILVICULTURE: C. A. KUPFER, Forest Assistant, District Office, to Products, District Office.

District 6—

OPERATION: CHAS. S. CONGLETON, Forest Ranger from Deschutes National Forest to Fremont National Forest; ALBERT ROBISON, Forest Guard, from Whitman National Forest to Malheur National Forest.

VIRGINIA M. BAIN, Clerk, District 5 to District 6.

GEORGE HILTON, Draftsman, District 6 to District 7.

LOUISE A. HELMICK, Clerk, Stenographer, and Typewriter, District 6 to Bureau of Statistics.

DORA REESE, Clerk, Stenographer and Typewriter, Operation to Products.

REINSTATED

District 4—

OPERATION: ROBERT PACK, Assistant Forest Ranger, Uinta National Forest.

PROMOTED

District 4—

FRANK J. RYDER, Forest Assistant, Sawtooth National Forest, to Deputy Forest Supervisor, Payette National Forest.

District 6—

LAW: DANIEL F. MCGOWAN, Clerk, to Assistant District Law Officer. WM. F. STALEY, Assistant District Law Officer, to District Law Officer.

FURLOUGHED

Silviculture—

A. K. CHITTENDEN, Forest Examiner.

STATE AND PRIVATE COOPERATION: A. W. WILLIAMSON, Forest Assistant.

District 2—

OPERATION: EDWIN D. HEPBURN, Forest Ranger; GEORGE W. LYTLE, Assistant Forest Ranger, Black Hills National Forest; WILLIAM H. HAZZARD, Forest Ranger, Leadville National Forest; THOS. H. WELSH, Assistant Forest Ranger, Medicine Bow National Forest; WILMER C. BENNETT, Expert, and MILTON S. KING, Assistant Forest Ranger, Arapaho National Forest; MARK EDICK, Assistant Forest Ranger, Hayden National Forest; JOHN E. ELLIOTT, Lumberman, Routt National Forest.

District 3—

OPERATION: ELLERY F. LAWRENCE, Assistant Forest Ranger, Carson National Forest; WILLIAM H. PIERCE, Assistant Forest Ranger, Coconino National Forest.

District 6—

OPERATION: JESSE DEWITT, Assistant Forest Ranger, Siskiyou National Forest; CLARENCE R. DAVIS, Assistant Forest Ranger, Umpqua National Forest; BEULAH E. WESTLAKE, Clerk.

SILVICULTURE: NELLIE SHEARS, Clerk.

GRAZING: THOS. P. MACKENZIE, Assistant District Forester.

RESIGNED

District 1—

OPERATION: GROVER C. BRYAN, Assistant Forest Ranger, Absaroka National Forest; FRANK MAZRALL, Assistant Forest Ranger, Blackfeet National Forest; ROSCOE O. LEWIS, Assistant Forest Ranger, and HOWARD C. BUSHNELL, Deputy Forest Ranger, Jefferson National Forest; GEORGE E. HUMISTON, Assistant Forest Ranger, Madison National Forest.

District 2—

OPERATION: ANDREW J. KENNADAY, Assistant Forest Ranger, Cheyenne National Forest; JOHN T. CRIMMINS, Assistant Forest Ranger, White River National Forest; CURT H. JOHNSON, Assistant Forest Ranger, Cochetopa National

Forest; THOMAS H. WELSH, Assistant Forest Ranger, Medicine Bow National Forest; JOSEPH F. CONLON, Assistant Forest Ranger, Black Hills National Forest; ABEL Z. HURTT, Assistant Forest Ranger, Bighorn National Forest; ARTHUR C. ROBERTS, Assistant Forest Ranger, Bonneville National Forest.

PRODUCTS: DOMINICK L. CARMODY, Engineer, Wood Preservation.

District 3—

OPERATION: FRANK C. SCOVILLE, Assistant Forest Ranger, Garces National Forest.

District 4—

OPERATION: E. M. CHRISTENSEN, Assistant Forest Ranger, Salmon National Forest; FRED RUTLEDGE, Deputy Forest Ranger, Weiser National Forest; WALLACE S. AVERILL, Assistant Forest Ranger, Wyoming National Forest; BETTIE EZELL, Forest Clerk, Lemhi National Forest.

District 5—

OPERATION: ROBERT H. HIETT, Deputy Forest Ranger, Angeles National Forest; ROBERT MALCOLM SCOTT, Forest Guard, Plumas National Forest; HENRY F. VAN WINKLE, Deputy Forest Ranger, Santa Barbara National Forest; CHAS. A. COPREN, Assistant Forest Ranger, Tahoe National Forest.

SEPARATED

District 1—

OPERATION: FRANK T. BROKER, Forest Guard, Minnesota National Forest.

District 2—

SILVICULTURE: LEWIS C. CHAPMAN, Assistant, Fremont Experiment Station.

District 6—

OPERATION: JOS. A. GASLIN, Assistant Forest Ranger, Siskiyou National Forest; FRANK KRIESCHE, Jr., Forest Guard, Chelan National Forest; HERBERT HULTEN, Forest Guard, Olympic National Forest; LOUISE A. HELMICK, Clerk, Stenographer, and Typewriter, District Office.

APPOINTMENT TERMINATED

District 2—

OPERATION: ARTHUR L. STANLEY, Assistant Forest Ranger, Routt National Forest.

DISTRICT OFFICE: STELLA B. HOOPER, Clerk, Stenographer, and Typewriter.

District 3—

OPERATION: R. W. NOURSE, Forest Guard, Jemez National Forest; BERT J. COLTER, Assistant Forest Ranger, Apache National Forest; GEO. A. COPLEY, Forest Guard, Prescott National Forest; J. M. MCMAHAN, Forest Guard (Trapper), Datil National Forest; W. J. BROWN, Forest Guard (Hunter and Trapper), Apache National Forest; CLYDE DOUGLAS, Forest Guard, Prescott National Forest; MARION A. GREGORY, Forest Guard, Manzano National Forest; ABBEY WARE CRABB, Forest Clerk, Coconino National Forest; WILLIAM DEADDER, Forest Guard, Coconino National Forest; GEORGE A. VILES, Forest Guard, Pecos National Forest.

District 4—

OPERATION: WILLIAM T. COOPER and WILLIAM COPELAND, Forest Guards, Idaho National Forest.

DISTRICT OFFICE: FRANK C. DOUGLAS, Clerk, by transfer to Reclamation Service.

District 5—

OPERATION: GEO. KRAUPH and WALTER BONNER, Forest Guards, Mono National Forest.

DISTRICT OFFICE: EDW. A. CHICK, Draftsman; JOHN S. SWAN, District Fiscal Agent; THEODORE R. COOPER, Forest Assistant.

REVOCATION OF APPOINTMENT

District 4—

OPERATION: WILLIAM E. GIBBS, Forest Guard, Weiser National Forest.

With deep regret announcement is made of the death by drowning, on May 8, of WILLIAM R. DODDS, Assistant Forest Ranger, on the Sevier National Forest, Panguitch, Utah.

SERVICE NOTES FOR JUNE

These notes contain instructions and necessary information for Forest officers, and will, therefore, be carefully read and kept on file for reference.

OFFICE OF THE FORESTER

ACCOUNTS

Freight Bills of Lading—

Supervisors and others issuing bills of lading must use only the numbered forms supplied by the Property Clerk. The consecutive numbers given are for identification purposes and are also a check against duplicate payment. A skeleton record is kept in the Office of Accounts at Washington showing bill of lading number and date of settlement only. The use of the same number twice, or of any number other than the consecutive numbers given by the Property Clerk, causes confusion and makes the proper record and verification of these bills more difficult.

Refund Vouchers—

Refund vouchers should, in all cases, show the date or dates on which payment was received on account of the sale or permit and also sufficient additional data to enable the district fiscal agent to identify the refund with the original transaction.

Discount on Purchases—

Merchants and manufacturers in many cases allow a discount of from 2 to 10 per cent when bills are paid within ten days. Members of the Service should bear this in mind and, when practicable, should certify and forward accounts for payment a sufficient time before the expiration of the ten-day limit to secure any discount allowed.

OPERATION

National Forest Eliminations and Additions—

During the month of May the President signed 18 proclamations changing the areas of National Forests. The proclamations of May 6 eliminated a total of 177,246 acres as follows: In District 1, 6,608 acres from the Coeur d'Alene (Idaho), 8,584 acres from the Kaniksu (Washington), and 1,600 acres from the Pend Oreille (Idaho); in District 2, 16,562 acres from the Battlement (Colorado) and 6,766 acres from the White River (Colorado); in District 4, 33,172 acres from the Caribou (Idaho) and 722 acres from the Caribou (Wyoming), 72,152 acres from the Minidoka (Idaho), and 25,170 acres from the Minidoka (Utah); in District 6, 5,910 acres from the Rainier (Washington).

The proclamations of May 9 eliminated a total of 271,822 acres. In District 3, 228,156 acres were eliminated from the Gila (New Mexico), the elimination to be effective March 1, 1911. By the same proclamation 21,331 acres were added to the Gila Forest effective May 9; in District 6, 43,666 acres were eliminated from the Colville (Washington).

The proclamations of May 16 eliminated a total of 90,674 acres. In District 3, 68,384 acres were eliminated from the Lincoln (New Mexico), and 29,738 acres were added; in District 4, 22,326 acres were eliminated from the Pocatello (Idaho).

The proclamations of May 20 eliminated a total of 71,133 acres in District 6, of which 69,518 acres were released from the Umatilla Forest, and 1,615 acres from the Deschutes.

The proclamations of May 21 eliminated a total of 11,241 acres in District 6, of which 4,485 acres were from the Malheur and 6,756 acres from the Whitman.

Economy in Subsistence Expenses—

Attention is called to Service Order 29, of May 6, 1909, which emphasizes the need of economy in all kinds of expenditure, with particular reference to travel and subsistence. It is not expected that Forest officers shall patronize cheap and unsatisfactory places; but, while no arbitrary limit of cost can be set for single meals, extravagance in this or any other item of expense will count against the record of the man who practices it.

Weight of Packages Mailed—

The attention of the Forester has been called to disregard, by Forest officers, of the postal regulations prohibiting the mailing of packages weighing more than 4 pounds. The Post Office Department reports that large articles, such as tents, have recently been mailed by Forest officers. Repeated instructions have been issued against this practice, and summary action will be taken in case these instructions are disobeyed.

Use of Manila Envelope—

In order to cut down the amount of money expended for envelopes, officers assigned to Forests should use the ordinary manila envelope, $3\frac{7}{8}$ inches by $8\frac{7}{8}$ inches, when corresponding with the supervisor or other officers on the Forest, since this style of envelope can be furnished at less than one-half the cost of the white envelope and is much less liable to be soiled. These envelopes should be stamped "Forest Supervisor," and with name of the town and State at which his headquarters are located before being sent out. Forest Officers, if they prefer, may use the No. 6 white envelope whenever it is necessary to correspond with anyone outside of the Service. Supervisors should see that this order is followed strictly.

SILVICULTURE

Quarterly Technical Reports—

Although the classified list of reports on National Forest work dated March 4 does not require any quarterly technical reports from Forest assistants, such reports were submitted from several Forests for the quarter ending March 31. The attention of supervisors and Forest assistants is called to the fact that these reports have been discontinued.

Timber Sales Inspected—

The attention of supervisors is again called to the fact that each monthly report of timber cut and sold should be accompanied with a list of the sales inspected during the month by the supervisor and deputy supervisor. If no sales have been inspected, a notation of this fact should be made on the margin of Form 949.

GRAZING

Amendment to Revised Trespass Procedure—

On page 360, May Field Program, 1910, in the seventeenth line, after the second word, "will," insert:

> "submit all papers in the case to the District Law Officer for examination as to the sufficiency of the evidence to sustain a suit. If the District Law Officer is of the opinion that additional evidence is required, the District Forester will take the necessary action to procure it. When the case is complete the District Forester will make"

In the same line strike out "add."

Grazing Trespass Settled—

The grazing trespass of A. R. Gumaer on the Pike National Forest has been settled by the trespasser's paying $400, the sum to which the grazing fees would have amounted for the time the cattle were in trespass.

LANDS

Agricultural Occupancy Permits—

Hereafter the issuance of permits for the occupancy and use of agricultural lands within the National Forests will be allowed only under the following conditions:

1. When the applicant merely wishes to secure the use of the land for agricultural purposes and without any intention of acquiring title thereto.
2. When the applicant wishes to occupy land which has been examined and favorably reported upon, pending its listing and entry under the Act of June 11, 1906.
3. When the applicant is doubtful of the land's agricultural possibilities and asks an opportunity to ascertain whether crops can be raised on it before using his homestead right.
4. When the applicant desires to occupy unsurveyed land within the primary limits of a railroad land grant or unsurveyed school land which he has agreed to purchase when the land is surveyed.

Act of June 11, 1906, Classification of Lands—

Hereafter when application is made for the listing of land under the Act of June 11, 1906, the character of the land will be determined immediately after its examination. If it is found to be better suited for cultivation and agricultural use than for forest purposes and may be occupied for agricultural purposes without injury to the National Forest and is not needed for public purposes, it will be recommended for listing and the applicant will be permitted to exercise his own discretion as to the kind and character of cultivation to which the land is adapted, and also whether

crops can be raised without irrigation, or whether he can successfully maintain his home upon the area.

Form 832a Abolished—

The special-use form, 832a, for use in case of telephones on National Forests, is abolished. Supervisors may use the stock of these forms now in their possession, but no more will be printed. Care should be taken to see that the administrative use provisions of Form 832a are inserted in the regular special-use form.

SERVICE PUBLICATIONS ISSUED IN MAY

Cir. 56. Bur Oak (Revised).

Silvical Leaflet 24. Bristle-Cone Fir (Revised).

Unnumbered circular, Information Regarding Employment on the National Forests. (Fourth Revision.)

CUMULATIVE INDEX TO SERVICE NOTES AND ORDERS

(JULY–JUNE)

[Numbers in parentheses after the month indicate page.]

Absence of District Forester, Chief of Office to act; July (25).
Accounts payable from more than one appropriation; November (153).
Act of June 11, 1906, as applicable to bona fide squatters; April (329).
as related to grazing land; April (330).
classification of lands under; June (393).
in relation to listing lands within limits of railroad grant; February (256).
qualifications of applicants under; April (329).
special-use permits to applicants under; February (256).
Additions and eliminations, Forest; May (358), June (391).
Advertisements, copy for; January (220).
Agricultural occupancy permits; June (393).
Analysis of Forest disbursements (S. O. 32); July (32).
Applicants under act of June 11, 1906, qualifications of; April (329).
Appointees, names of; December (186).
Ashley National Forest, change in administrative boundary; August (60).
Atlas, correction ink for; July (27).
figures, proper way of writing; January (220).
Badges, disposal of discarded; November (154).
Beaverhead National Forest, change in administration; August (60).
Bills of lading, memorandum; February (257).
Boundaries, rules governing changes in; March (290).
Boundary notices and fire warnings; December (186).
how to post; September (92).
Bounties for destroying predatory animals, collection of; March (294).
Bunch, J. W., timber trespass; August (60).
verdict of not guilty ordered; February (255).
Calendar, Forest Service for 1910; December (185).
Cannon, Thomas, suit against; September (91).
Circular letters, designations on; February (256).
Civil-service eligibles; December (186).

Claims, coal, held for cancellation; September (91).
contested; appeals; March (295).
made in good faith, no report on; July (26).
procedure in final-proof hearings; July (25).
relinquishment of (S. O. 40); April (331).
reports, amendment of instructions on; August (59).
favorable; March (295).
identification on; July (26).
to Chiefs of Field Division; March (296).
to show adverse facts; August (59).
status; March (295).
Class A sales, rangers authorized to make; January (222).
Clay, Henry, indicted for fire trespass; February (255).
C., M. and St. P. R. R., United States entitled to relief against; March (292).
Coal claims held for cancellation; September (91).
Commercial power plants, definition; October (123).
Commissioner's requests for reports; transmittal; February (254).
Complaint and charges should be fairly discussed; December (185).
Confession in criminal case of R. W. Stuart; February (254).
Copy for advertisements; January (220).
Coronado National Forest, change in administration; September (92).
Correction ink for Forest Atlas; July (27).
Correspondence with the Interior Department; January (218).
Dating maps and papers; July (27).
Diaries, to be kept by each member of Service (S. O. 37); October (125).
Distribution of new publications to Forest rangers; February (255).
Drift fences on the public domain; January (218).
Eliminations and additions, Forest; May (358), June (391).
Employment outside the Forest Service; November (154).
Entiat Lumber and Power Co., suit against; September (91).
Envelope, use of; June (392).
Euster, W. F., fined for fire trespass; December (185).
Expenses, economy in; June (392).
Explanations unnecessary on vouchers; July (26).
Express charges, against individual letters of authorization (S. O. 30); July (31).
Field Program directory, modification of; April (327).
Filing and subject designation; April (328).
applications for positions; December (186).
Final-proof hearings, procedure in; July (25).
Fire request, Form 445; December (186).
trespass, indictment returned against Earl Gardner for; May (358).
indictment returned against Henry Clay; February (255).
legal proceedings in; August (59).
verdict against Corvallis and Eastern R. R. Company for; May (358).
W. F. Euster and Jack Huston fined for; December (185).
warnings and boundary notices; December (186).
Forage plants, collection and identification of; July (222).
Form A voucher, instructions regarding use of; November (153).
4, or form A, voucher, instructions regarding use of; November (153).
19, use in new card-accounting system; January (219).
22, not to be kept for 1910; July (32).
24, to be transferred when member is transferred; January (219).
25, use of (S. O. 38); October (125).
26, discontinued (S. O. 38); October (125).
99, not to give analysis of Forest disbursements; July (31).
159, rendered quarterly; September (95).
202, correction of timber sale agreement; March (293).
256, use of; July (28).
343, revised for reports on predatory animals; January (223).
347, further instruction for use of; January (220).
revised; October (123).

Form 370, discontinued; March (292).
372b, discontinued; March (292).
374a, discontinued; March (292).
374b, discontinued; March (292).
375a, discontinued; March (292).
375b, discontinued; March (292).
382a, discontinued; March (292).
382b, discontinued; March (292).
445, should be given the fullest use; December (186).
606, use of, made optional; April (328).
621, record on; July (27).
653, instructions for filling out; July (27).
763, use of; July (28).
820, cutting report in timber settlements; March (293).
use of, in scaling on timber sales; April (328).
832a, made obselete; June (394).
861, use of; March (292).
861–G, new form, notice to grazing applicants; December (187).
874–a, correction of: January (222).
874–8, rangers to retain duplicate; September (95).
874–14, discontinued; September (95).
949, cutting report in timber settlements; March (293).
instructions for report on; December (187), June (393).
use of; September (93).
977, preparation of report on; July (27).
Free use, procedure in (S. O. 36); September (95).
Freight bills of lading; June (391).
numbering of; October (123).
charges, against individual letters of authorization (S. O. 30); July (31).
procedure when impossible to secure in advance; September (92).
shipments, procedure in (S. O. 34); August (64).
Garces National Forest, change in administration; September (92).
General Order 137 of Secretary of Agriculture; January (220).
Grazing applicants, new form of notice to; December (187).
fees, uniform schedule of; December (187).
instructions, modifications of; April (329).
land, Act of June 11, 1906, as related to; April (330).
permits, application for, numbering; August (61).
record of; July (27).
privileges, division of, between owners; March (293).
form of waiver; July (28).
trespass, Felipe Sanchez fined for; February (255).
cases, rehearing in Sierra; May (357).
procedure revised; May (359).
amendment to, revised; June (393).
settled; June (393).
without permit, indictment for; November (153).
still indictable; April (327).
Homesteads, second entries, error in Use Book; July (26).
Hopper, Jas. A., indicted for criminal trespass; December (185).
Huston, Jack, fined for fire trespass; December (185).
Initialing in supervisors' offices; December (185).
Insect control, cooperation with Bureau of Entomology; October (124).
Interior Department, law correspondence with; February (254).
Lands, classification of, under Act of June 11, 1906; June (393).
organization; March (294).
Law office of the Forest Service as now constituted; March (290).
report, amendment Manual of Procedure; July (25).
Letters, approval; April (328).
of authorization, discontinued and originated; March (292).

Liability statement to be prepared quarterly (S. O. 35); September (95).
Library books, purchase of; November (155).
Lodging at ranger stations, reimbursement for; December (186).
March (292).
Manzano National Forest, change in administration; August (60).
Manual of Procedure, amendment, law report; July (25).
Map and survey instructions, revised; April (328).
Maps and packages, identification of; April (328).
Mensuration tables, to be filed in District offices; September (93).
Monthly service report, revised form for; October (123).
National Forest names; November (155).
Nonexpendable property, care in receipts and reports; August (61).
Northern Pacific, action against; October (123).
Notice to grazing applicants, new Form 861-G; December (187).
Notices, withdrawal; May (362).
Notification of receipt, discontinued; October (125).
Oregon Caves National Monument, created; August (60).
Outstanding accounts, to be submitted; August (61).
Packages and maps, identification of; April (328).
mailed, weight of; June (392).
Page, Charles, fined; August (59).
Pastures, survey of; July (28).
Patent, applied for, by Harry Tiemann; December (184).
granted to John M. Nelson, jr.; December (184).
Patterson, Zilpha, criminal proceedings discontinued in case of; December (185).
Permits, agricultural occupancy; June (393).
applications for grazing, numbering of; August (61).
crossing, regulation 66; November (155).
grazing, record of; July (27).
in exchange for use of private lands; January (223).
to purchasers of stock; renewal of; July (28).
use, authority to issue; July (28).
Personal services, term defined; January (219).
Positions, filing applications for; December (186).
Predatory animals, collection of bounties for destroying; March (294).
killed, reports of; May (361).
Products, fiscal agent for branch of; January (224).
work, transfer of; November (155).
Property accountability; February (257); May (358).
Purchasers of stock, renewal of permits to; July (28).
Purchases, discount on; June (391).
Railroad rights of way, water power to be considered; September (91).
Rangers' quarterly reports; January (227).
services, distribution of, on Form 347; January (220).
Rebello, J., criminal proceedings against; August (60).
Receipts and refunds, record and report of (S. O. 33); August (63).
Refunds (S. O. 33); August (63).
Regulations and instructions; January (223).
Reimbursement accounts, must be separate; August (61).
for lodging at ranger stations; December (186).
March (292).
Renewal of permits to purchasers of stock; July (28).
Repairs to damaged instruments; February (257).
Reports, claims, favorable; March (295).
identification on; July (26).
instructions on; August (59).
to chiefs of field division; March (296).
Commissioner's request for; transmittal; February (254).
on claims made in good faith; July (26).
predatory animals killed; January (223).
quarterly technical; June (392).
rangers' quarterly; January (223).

Requisitions for supplies, to be sent to Ogden; August (61).
(S. O. 39); December (189).
Revello, J. (see Rebello), saloon trespass case settled; February (255).
Right of way, policy of procedure in clearing; December (184).
ruling as to timber on; May (362).
Rollins, J. R., criminal proceedings against; August (59).
Ruling in re U. S. *v.* C., M. and St. P. R. R.; March (296).
Sanchez, Felipe, fined; February (255).
San Luis National Forest, change in administration; August (60).
Second entires, not authorized on claims relinquished since February 8, 1908; July (26).
Seed production report, preparation of; July (27).
Service Order 30, freight and express charges; July (31).
31, recapitulation accompanying vouchers; July (31).
32, analysis of Forest disbursements; July (32).
33, record and report of receipts and refunds; August (63).
34, amendment of S. O. 30; August (64).
35, monthly liability statement; September (95).
36, procedure in free use; September (95).
37, diaries; October (125).
38, notification of receipt; October (125).
39, amendment of S. O. 27; December (189).
40, relinquishment of claims; April (331).
Settlement: listing lands within limits of railroad grant; February (256).
Signatures, correct use of; September (92).
Smithsonian Institution, cooperation with; May (357).
Special transportation; term defined; January (219).
Special-use permits under act of June 11, 1906; February (256).
Spray, Tolle A., sentenced; August (59).
Squatters, Act of June 11, 1906, as applicable to bona fide; April (329).
State's preferential right, opinion on; November (153).
Status: claims; March (295).
recommendations affecting change of; February (256).
Stong boxes, to make mice proof; November (154).
Stuart, R. W., plea of guilty of embezzlement; February (254).
Stumpage rates; April (328).
Subject designations and filing involved; April (328).
Subvouchers, preparation of; September (92).
Sullivan, John, criminal proceedings against; August (59).
Supervisors' advertised sales, delegation of authority in; August (61).
Supplies to be secured from Ogden; August (61).
Survey and map instructions, revised; April (328).
of pastures, rule for; July (28).
Targhee National Forest divided; February (256).
Telegraphic addresses at the Chicago office; February (258).
Telegraphing, economy in; January (220).
Timber cut and sold, report on; December (187), May (358).
or destroyed, report on; March (293).
on right of way, ruling as to; May (362).
sale agreement, correction of Form 202; March (293).
reports; January (222).
sales, advertisements of; January (221).
inspected; June (393).
payments in connection with; February (258).
supervisors' advertised, delegation of authority in; August (61).
use of Form 949; September (93).
settlements, report of; September (93).
trespass, filling out Form 653; July (27).
Trails, location of grades; September (91).
November (154).

Transfer of salary card; January (219).
Transfers, requests for; January (219).
Trespass, fire, proceedings in; August (59).
indictment for grazing without permit; November (153).
report, extra copies of; December (184).
saloon, proceedings in; August (60).
time for notifying; July (28).
timber (criminal); December (185).
January (219).
filling out Form 653; July (27).
indictment returned; August (60).
Uniforms, care in ordering; July (26).
Uinta National Forest, change in administration; August (60).
Use Book, error in paragraph on second entries; July (26).
Uses of woods, information desired on; January (223).
Vermetti, J., criminal proceedings against; August (60).
Vouchers, refund; June (391).
stamping; November (154).
unnecessary explanations on; July (26).
Waiver of grazing privileges, form of; July (28).
Water powers, to be considered in reports on railroad rights of way; September (91).
Webb, L. R., convicted of fire trespass; February (255).
Weight of packages mailed; June (392).
Weiser National Forest, change in administration; August (60).
Whiteside, Joseph, sentenced; February (255).
Withdrawal notices; May (362).

O

Walter Mulford

Issued July 15, 1910.

UNITED STATES DEPARTMENT OF AGRICULTURE
FOREST SERVICE
HENRY S. GRAVES, Forester

July Field Program, 1910

This program of field work and assignments in the Forest Service is issued quarterly on the fifteenth day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed and reference to projects for which plans have not been matured are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

OFFICE OF THE FORESTER

HENRY S. GRAVES, Forester.
ALBERT F. POTTER, Associate Forester.
HARRY L. HILL, Secretary to the Forester.

HERBERT A. SMITH, Editor; Publication, FINDLEY BURNS, on leave, BRISTOW ADAMS, in charge; GEORGE B. SUDWORTH, Dendrologist; EUGENE S. BRUCE, Expert Lumberman; D. D. BRONSON, General Inspector; E. M. GRIFFITH, Special Inspector, Madison, Wis.

ACCOUNTS

Division of Accounts and Disbursements (Forest Service Branch).

M. E. FAGAN, Chief of Office of Accounts; E. A. MELZAR, Assistant Chief.

52443—10——1

OPERATION

James B. Adams, Assistant Forester, in charge; Clyde Leavitt, Assistant Forester; George G. Anderson, Assistant in Office Methods.

GEOGRAPHY—Fred G. Plummer, Chief.

Atlas—G. B. Bruce, Acting.

Drafting—C. A. Kolb.

Photography—A. G. Varela.

MAINTENANCE—George A. Bentley, Chief.

SILVICULTURE

William T. Cox, Assistant Forester, in charge (in the field); E. E. Carter, Assistant Forester (in the field); A. K. Chittenden, Acting Assistant Forester.

STATE AND PRIVATE COOPERATION—J. G. Peters, Chief (in the field); J. H. Foster, Assistant Chief.

Eastern States—Preliminary examinations of forest land, in cooperation with private owners—J. M. Briscoe and E. D. Clark, Washington, D. C.

Connecticut—Examination of forest conditions and study of second-growth hardwood stands, in cooperation with the State Forester—E. H. Frothingham, New Haven.

Illinois—Preparation of report on forest conditions, in cooperation with the State Laboratory of Natural History—R. C. Hall and O. D. Ingall, Washington, D. C.

North Carolina—Examination of forest conditions and collection of yield-table data for second-growth stands in cooperation with North Carolina Geological and Economic Survey—J. S. Holmes, W. M. Moore, and A. W. Williamson, Washington, D. C.

Northeastern States—Study of red spruce in second-growth stands—L. S. Murphy, Washington, D. C.

Southern States—Study of Appalachian species, with special reference to yield of second growth stands—W. W. Ashe, Washington, D. C.

General—Study of the relation of forest taxation to forestry and to the future timber supply—Fred. R. Fairchild, New Haven, Conn.

Compilation of Federal and State forest and timber laws—J. S. Peyton, Washington, D. C.

SILVICS—Raphael Zon, Chief (in the Field). S. T. Dana, Assistant Chief (in the Field). G. de S. Canavarro, Acting Chief.

General—Basket Willow Study—G. N. Lamb, Washington, D. C.

Potential range of foreign species of value to the United States—Miss M. C. Gannett, Washington, D. C.

Library, Miss H. E. Stockbridge.

GRAZING.

A. F. Potter, Associate Forester, in charge; L. F. Kneipp, Assistant Forester; Will C. Barnes, Inspector of Grazing.

Forage investigations; compilation of data—F. V. Coville, Botanist, Bureau of Plant Industry, in charge, Washington, D. C.; investigation of methods of range control and restoration of overgrazed ranges, James T. Jardine, Deputy Forest Supervisor, in the Field; Arthur T. Sampson, Plant Ecologist, Flagstaff, Ariz. (detailed to Bureau of Plant Industry under instructions of F. V. Coville, Botanist).

Forest investigations; range control studies—William A. Dayton, Plant Ecologist, Flagstaff, Ariz.; Charles E. Fleming, Plant Ecologist, Saguache, Colo.

Identification of grasses and plants—Dr. Edward L. Greene, Consulting Expert, Washington, D. C.

LANDS

James B. Adams, Assistant Forester, in charge; O. C. Merrill, Engineer.

OCCUPANCY—W. W. Dyar, in charge.

CLAIMS—J. I. Parker, in charge.

PRODUCTS

Wm. L. Hall, Assistant Forester, in charge, Madison, Wis.

ACCOUNTS—W. R. Fuchs, District Fiscal Agent, Madison, Wis.

LABORATORY—(In cooperation with the University of Wisconsin, Madison, Wis.) McGarvey Cline, Director; H. S. Bristol, Assistant Director; Howard F. Weiss, Assistant Director.

Engineering—Rolf Thelen, in charge.

Maintenance—Wm. H. Kempfer, in charge.

Chemistry—E. Bateman, in charge.

Experiments to determine the practicability of revising commercial specifications or turpentine—E. Bateman; assistants, A. W. Schorger and P. W. Webster.

Experimental study of methods of analyzing and grading commercial coal tar creosotes—E. Bateman; assistants, C. H. Teesdale and P. W. Webster.

Pulp and Paper—E. Sutermeister, in charge.

Methods of testing fibrous materials to ascertain their suitability for paper making—E. Sutermeister; assistants, J. H. Thickens, J. C. Lawrence, E. L. Leasman, and Frank Blaine.

Timber Physics—H. D. Tiemann, in Charge.

Preparation of microscopic slides and photomicrographs showing structure of woods—Miss Eloise Gerry.

Dead load bending tests—H. D. Tiemann.

Continuation of physical determinations of heat conductivity and specific heat—Frederick Dunlap.

TIMBER TESTS—J. A. NEWLIN, in charge.

Standard tests on maple, red oak, and ash—F. J. Hallauer; assistants, T. Lyons, R. C. Phipps, H. N. Brue, and C. J. Coyle.

Preparation of general report on timber tests—McGarvey Cline; assistant, A. L. Heim.

WOOD DISTILLATION—L. F. HAWLEY, in charge.

Refining and grading of wood turpentine—L. F. Hawley.

Methods of turpentine analysis—L. F. Hawley; assistant, E. Bateman.

Experiments in steam distillation of resinous wood—L. F. Hawley; assistant, R. C. Palmer.

Experiments in the destructive distillation of resinous wood—L. F. Hawley, assistant, R. C. Palmer.

WOOD PRESERVATION—F. M. BOND, in charge.

Preservation of cross-ties from decay in cooperation with the Chicago, Milwaukee and St. Paul Railroad—F. M. Bond.

Resistance of different woods to injection with preservatives—C. P. Winslow.

Preservation of timber used in the construction of silos, in cooperation with the University of Wisconsin—F. M. Bond.

The construction and experimental operation of a timber-treating plant in cooperation with the War Department, Picatinny Arsenal—E. W. Peters, Dover, N. J.

Fungicidal properties of coal-tar creosote fractions—C. H. Teesdale.

Comparative efficiency of various wood preservatives in cooperation with their manufacturers—L. Witt.

Durability tests on insulator pins in cooperation with the Camp Manufacturing Company—F. M. Bond.

PATHOLOGY (in cooperation with the Bureau of Plant Industry)—C. J. HUMPHREY, in charge.

Collection of wood-destroying fungi and data relative to a timber-disease survey of the United States—C. J. Humphrey.

Study of wood-destroying fungi in pure culture to determine the factors governing their growth and mode of dissemination—C. J. Humphrey.

WOOD UTILIZATION—H. S. SACKETT, in charge, Fisher Building, Chicago, Ill.

[The figures in the studies below indicate the number of the project.]—Study of the wood-using industries of Kentucky, in cooperation with the State Board of Agriculture, Forestry, and Immigration (3)—R. E. Simmons, Fisher Building, Chicago, Ill.

Preparation of a market report for Chicago, Ill. (8)—Franklin H. Smith, Fisher Building, Chicago, Ill.

Study of woods which may be used as substitutes for the southern junipers in the manufacture of lead pencils (14)—H. S. Sackett, Fisher Building, Chicago, Ill.

Study of the woods which may be used in the manufacture of bobbins and shuttles (16)—H. S. Sackett, Fisher Building, Chicago, Ill.

Study of the methods of hickory manufacture and utilization (21)—C. F. Hatch, Fisher Building, Chicago, Ill.; Assistants, Quincy Randles and J. C. Nellis.

Study of the suitability of short lengths of cypress for use in the manufacture of tobacco boxes and butter tubs (22)—R. E. Simmons, Fisher Building, Chicago, Ill.

Study of the suitability of incense cedar for use in the manufacture of cigar boxes (23)—Franklin H. Smith, Fisher Building, Chicago, Ill.

Study of the effect of freight rates on the disposition of low-grade lumber (24)—H. S. Sackett, Fisher Building, Chicago, Ill.

Study of the fiber box industry and its effect on the wooden box industry (25)—Franklin H. Smith, Fisher Building, Chicago, Ill.

Preparation of reports upon the uses of the principal commercial woods—Hu Maxwell, Fisher Building, Chicago, Ill.; W. L. Hall, Madison, Wis.

WASHINGTON OFFICE—O. T. SWAN, in charge.

DISTRICT 1

Montana, northeastern Washington, northern Idaho, northwestern South Dakota, northern Michigan, northern Minnesota, and southwestern North Dakota. Office, Hammond Block, Missoula, Mont.

W. B. GREELEY, District Forester; F. A. SILCOX, Associate District Forester.

LAW—Office of the Solicitor (Forest Service Branch).—W. M. AIKEN, Assistant to the Solicitor and Law Officer; HAROLD H. CLARKE, Assistant to the Solicitor and Assistant Law Officer.

ACCOUNTS—JOHN A. URBANOWICZ, District Fiscal Agent.

OPERATION—J. P. MARTIN, Assistant District Forester; E. W. KRAMER, District Engineer.

MAINTENANCE, R. J. MOORE.

SILVICULTURE—R. Y. STUART, Assistant District Forester; O. M. BUTLER, Assistant District Forester.

TIMBER SALES, Assistant District Foresters in Silviculture.

IDAHO—Reconnaissance, Cœur d'Alene National Forest—F. B. Brungate, Forest Agent, Wallace.

Reconnaissance, Kaniksu National Forest—M. H. Wolff, Coolin; assistants, Arthur F. Bishop, R. A. Hungerford, H. W. Horton, and J. B. Somers.

MONTANA—Reconnaissance, Deerlodge National Forest—J. S. Baird, Lumberman, Deerlodge; assistants, A. A. Saunders, R. T. Ferguson, R. P. Prichard, L. C. Stockdale, E. I. Terry, and Fred D. Davis.

Reconnaissance, Helena National Forest—J. S. Baird, Lumberman, Deerlodge; assistants, Frank Thompkins, H. Edwards, Carl Imes, W. F. Hale, and J. W. Gilson.

PLANTING, Assistant District Foresters in Silviculture.

SILVICS, Assistant District Foresters in Silviculture. S. T. DANA, on special detail.

Yield tables, lodgepole stands—C. N. Whitney, Anaconda, Mont.

Yield tables, white pine stands—F. I. Rockwell, Coolin, Idaho; assistants, A. O. Benson, Herman Krauch, E. O. Buhler, O. M. Savore, and E. Mills.

COOPERATION, Bureau of Etomology.

Location of insect-infested timber and determination of methods of local control—Josef Brunner, Field Agent, Bureau of Entomology, Columbia Falls, Mont.

GRAZING—C. H. ADAMS, Assistant District Forester; W. S. PERRINE, Assistant District Forester.

LANDS—R. H. RUTLEDGE, Assistant District Forester; JOHN D. JONES, Assistant.

Classification Swan River valley agricultural lands—H. H. Chapman, Kalispell, Mont.; Assistant, Abbott B. Silva.

PRODUCTS

WOOD PRESERVATION—Construction and experimental operation of a wood-preserving plant for treating ties, mine timbers, and telephone poles, in cooperation with the Anaconda Copper Mining Company—P. R. Hicks, Butte, Mont.

Investigation of possibilities of treating fence posts and telephone poles, in connection with sales of dead timber, Helena National Forest—P. R. Hicks, Butte, Mont.

NATIONAL FORESTS

IDAHO

BEAVERHEAD—See Montana.

CLEARWATER—F. A. Fenn, Forest Supervisor, Kooskia (WU N); Edw. C. Thenon, Deputy Forest Supervisor.

COEUR D'ALENE—W. G. Weigle, Forest Supervisor, Wallace (WU-Am); Roscoe Haines, Deputy Forest Supervisor; W. W. Morris and W. B. Willey, Forest Assistants; C. H. Gregory, Lumberman.

KANIKSU—See Washington.

NEZPERCE—Geo. V. Ring, Forest Supervisor, Grangeville (WU-Am); J. Arthur Brown, Deputy Forest Supervisor.

PEND OREILLE—J. E. Barton, Forest Supervisor, Sandpoint (WU-Am, N, W); Edw. G. Stahl, Deputy Forest Supervisor; F. A. Gaylord, Forest Assistant.

MICHIGAN

MICHIGAN-MARQUETTE—S. M. Higgins, Acting Forest Supervisor, Au Sable (WU-Am).

MINNESOTA

MINNESOTA—G. E. Marshall, Forest Supervisor, Cass Lake (WU-Am, GN); J. St. J. Benedict, Forest Assistant.

SUPERIOR—J. A. Fitzwater, Acting Forest Supervisor, Ely (WU-GN); James A. Howarth, jr., Forest Assistant.

MONTANA

ABSAROKA—V. Gifford Lantry, Forest Supervisor, Contact, telegraph address Livingston (WU-Am, N); N. C. Brown, Deputy Forest Supervisor; John M. Bedford, Forest Assistant.

BEARTOOTH—J. F. Preston, Acting Forest Supervisor, Red Lodge (WU-Am, N); Donald R. Brenster, Forest Assistant.

BEAVERHEAD—C. K. Wyman, Forest Supervisor, Dillon (WU-Am); Scott Leavitt, Deputy Forest Supervisor; Chas. R. Clark, Forest Assistant.

BITTERROOT—W. W. White, Forest Supervisor, Missoula (WU-Am, N); M. N. Stickney, Deputy Forest Supervisor.

BLACKFEET—F. N. Haines, Forest Supervisor, Kalispell (WU-Am, GN); R. P. McLaughlin, Deputy Forest Supervisor; J. A. Larsen, Forest Assistant.

CABINET—Ralph H. Bushnell, Forest Supervisor, Thompson Falls (WU-Am, N); Claude W. Griffin, Deputy Forest Supervisor.

CUSTER—Glen A. Smith, Forest Supervisor, Ashland (WU via Crow Agency-Am, N via Forsyth); Edgar F. White, Forest Assistant.

DEERLODGE—D. T. Mason, Forest Supervisor, Anaconda (P-Am, N); Harry C. Schick, Deputy Forest Supervisor; F. S. Patton, E. I. Terry, C. N. Whitney, and A. A. Saunders, Forest Assistants; J. S. Baird, Lumberman.

FLATHEAD—Page S. Bunker, Forest Supervisor, Kalispell (WU-Am, GN); John H. Clack, Deputy Forest Supervisor; J. L. Cobbs, Forest Assistant.

GALLATIN—D. T. Conkling, Forest Supervisor, Bozeman (WU-Am, N); W. B. Piper, Forest Examiner.

HELENA—Dwight Bushnell, Forest Supervisor, Helena (WU-Am, N); J. D. Warner, Deputy Forest Supervisor; Donald Bruce, Forest Assistant.

JEFFERSON—J. B. Seely, Forest Supervisor, Great Falls (WU-Am, N); Wellman Holbrook, Deputy Forest Supervisor; Henry H. Farquhar, Forest Assistant.

KOOTENAI—Dorr Skeels, Forest Supervisor, Libby (WU-Am, GN); Rutledeg Parker, Deputy Forest Supervisor; Webster H. Ransom, Forest Assistant.

LEWIS AND CLARK—W. H. Daugs, Forest Supervisor, Chouteau (WU via Collins-Am, GN via Collins).

LOLO—Elers Koch, Forest Supervisor, Missoula (WU, P-Am, N); Thos. C. Spaulding, Deputy Forest Supervisor; E. C. Clifford, Forest Assistant.

MADISON—Clifton W. Hudson, Forest Supervisor, Sheridan (WU-Am, N); Joseph W. Butler, Forest Assistant.

MISSOULA—D. G. Kinney, Forest Supervisor, Missoula (WU, P-Am, N); Karl W. Woodward, Deputy Forest Supervisor; Richard C. Eggleston, Forest Assistant.

SIOUX—See South Dakota.

NORTH DAKOTA

DAKOTA—C. A. Ballinger, Forest Supervisor, Camp Crook, S. Dak. (WU via Bellefourche-Am via Bellefourche); H. E. Fegley, Forest Assistant.

SOUTH DAKOTA

SIOUX—C. A. Ballinger, Forest Supervisor, Camp Crook (WU via Bellefourche-Am via Bellefourche); H. E. Fegley, Forest Assistant.

WASHINGTON

KANIKSU—W. N. Millar, Forest Supervisor, Coolin, Idaho (WU-Am, GN); Elmer R. Brunke, Deputy Forest Supervisor; Wm. C. Latane, R. C. Jones, and F. I. Rockwell, Forest Assistants.

DISTRICT 2

Colorado, Wyoming, South Dakota, Nebraska, and western Kansas. Office, Majestic Building, Denver, Colo.

SMITH RILEY, District Forester; P. G. REDINGTON, Associate District Forester.

LAW—Office of the Solicitor (Forest Service Branch). GEO. E. TROWBRIDGE, Assistant to the Solicitor and Law Officer; J. F. LAWSON, Assistant to the Solicitor and Assistant Law Officer.

ACCOUNTS—H. I. LOVING, District Fiscal Agent.

OPERATION—FRED W. MORRELL, Assistant District Forester; NILE HUGHEL, District Engineer.

MAINTENANCE, F. B. AGEE.

SILVICULTURE—S. L. MOORE, Assistant District Forester.

TIMBER SALES, Assistant District Forester in Silviculture.

PLANTING, — — ———.

SILVICS, C. G. BATES.

COLORADO—Fremont Experiment Station, meteorological, planting, and other experiments—William D. Hayes, in charge, Manitou.

Establishment of stream-flow experiment in cooperation with Weather Bureau, Rio Grande National Forest—C. R. Tillotson and B. F. Kadel (latter representative of Weather Bureau), Wagon Wheel Gap.

Examination of experimental sample plots, San Isabel and Uncompahgre National Forests—C. G. Bates, address, Denver.

GRAZING—J. W. NELSON, Assistant District Forester; E. N. KAVANAGH, Assistant District Forester.

LANDS—C. J. STAHL, Assistant District Forester.

PRODUCTS—H. S. BETTS, Assistant District Forester.

TIMBER TESTS—Timber-testing laboratory in cooperation with the University of Colorado, Boulder, Colo.—N. de W. Betts, in charge.

Tests on round timbers of various Rocky Mountain species, including mine timbers, in cooperation with the Northern Coal and Coke Company and various National Forests.

Tests on western red cedar, lodgepole pine, and Engelmann spruce telephone poles, in cooperation with the Central Colorado Power Company and the Colorado Telephone Company.

WOOD PRESERVATION—Preservative treatment of timber used in irrigation work, in cooperation with the Denver Reservoir Irrigation Company—H. S. Betts, Denver, Colo.

Study of wood-preservation methods for permanent improvement work on National Forests in District 2—H. S. Betts and H. M. Mason, jr., Denver, Colo.

WOOD UTILIZATION—Study of wood-using industries in District 2—H. S. Betts and H. M. Mason, jr., Denver, Colo.

NATIONAL FORESTS

COLORADO

ARAPAHO—Arthur M. Cook, Forest Supervisor, Fraser (WU-Ad); Lee E. Cooper, Deputy Forest Supervisor.

BATTLEMENT—John W. Lowell, jr., Acting Forest Supervisor, Collbran (WU-WF, G).

COCHETOPA—Eugene Williams, Forest Supervisor, Saguache (WU-G).

GUNNISON—Wm. R. Kreutzer, Forest Supervisor, Gunnison (WU-WF, G); E. C. Berky, Deputy Forest Supervisor; Stanley B. Hall, Forest Assistant.

HAYDEN—See Wyoming.

HOLY CROSS—Harry H. French, Forest Supervisor, Glenwood Springs (WU-WF, G); Albert H. Miller, Deputy Forest Supervisor.

LA SAL—See Utah, District 4.

LEADVILLE—Theodore Shoemaker, Forest Supervisor, Leadville (WU, P-WF, G); R. E. Clark, Deputy Forest Supervisor; J. E. Martin, Forest Assistant.

COLORADO—H. N. Wheeler, Forest Supervisor, Fort Collins (WU-WF); H. B. Holroyd, Deputy Forest Supervisor.

MONTEZUMA—Ress Phillips, Forest Supervisor, Mancos (WU-G); R. W. Allen, Deputy Forest Supervisor.

PIKE—C. M. Granger, Acting Forest Supervisor, Denver (WU, P-Ad, Am, G, US, WF); W. I. Hutchinson, Forest Assistant; Monument Nursery—W. Schrader, Forest Planting Assistant, Monument.

RIO GRANDE—W. J. Morrill, Forest Supervisor, Monte Vista (WU-G); Walter F. Bowers, Deputy Forest Supervisor; Jay Higgins, Forest Assistant.

ROUTT—J. H. Ratliff, Forest Supervisor, Steamboat Springs (WU-Ad); P. J. Paxton, Forest Assistant.

SAN ISABEL—J. N. Langworthy, Forest Supervisor, Westcliffe (WU-G); M. B. Willey, Deputy Forest Supervisor.

SAN JUAN, EAST—A. L. Sweitzer, Forest Supervisor, Pagosa Springs (WU-G); Peter Keplinger, Forest Assistant.

SAN JUAN, WEST—Ernest W. Shaw, Forest Supervisor, Durango (WU-G).

SOPRIS—John McLaren, Forest Supervisor, Aspen (WU-WF, G); Thos. C. Hatton, Deputy Forest Supervisor.

UNCOMPAHGRE—Howard S. Bushnell, Forest Supervisor, Delta (WU-G); J. H. Ramskill, Forest Assistant.

WHITE RIVER—James A. Blair, Forest Supervisor, Meeker (WU-WF, G).

KANSAS

KANSAS—B. R. H. d'Allemand, Forest Supervisor, Garden City (WU, P-WF); Garden City Nursery.

NEBRASKA

NEBRASKA—H. R. Shockley, Acting Forest Supervisor, Halsey (WU-Ad); Halsey Nursery—L. Besley and C. R. Bechtle, Forest Planting Assistants.

SOUTH DAKOTA

BLACK HILLS, NORTH—Paul D. Kelleter, Forest Supervisor, Deadwood (WU-Ad, Am); John Murdoch, jr., and G. A. Duthie, Forest Assistants.

BLACK HILLS, SOUTH—R. P. Imes, Forest Supervisor, Custer (WU-Ad).

WYOMING

BIGHORN—W. E. Jackson, Forest Supervisor, Sheridan (WU-Ad); Herbert Graff, Deputy Forest Supervisor.

WYOMING

BONNEVILLE, GREEN RIVER—Foster Steele, Acting Forest Supervisor, Pinedale (WU-Am).

BONNEVILLE, SWEETWATER—C. G. Poole, Forest Supervisor, Lander (WU-Am).

BONNEVILLE, WIND RIVER—H. Earl French, Forest Supervisor, Dubois (WU-Am).

MEDICINE BOW—P. S. Lovejoy, Forest Supervisor, Laramie (WU, P-Am); John E. Stephens, Deputy Forest Supervisor; R. A. Stretch and G. W. Hendry, Forest Assistants.

HAYDEN—James Blackhall, Forest Supervisor, Encampment (WU, P-Am).

SHOSHONE—H. W. Thurston, Forest Supervisor, Cody (WU-Ad).

SUNDANCE—Louis Knowles, Forest Supervisor, Sundance (WU-Ad, Am).

DISTRICT 3

Arizona, Arkansas, Florida, New Mexico, and Oklahoma. Office, Strickler-Luna Building, Albuquerque, N. Mex.

A. C. RINGLAND, District Forester; E. H. CLAPP, Associate District Forester.

LAW—Office of the Solicitor (Forest Service Branch). BLAKE FRANKLIN, Assistant to the Solicitor and Law Officer; R. F. FEAGANS, Assistant to the Solicitor and Assistant Law Officer.

ACCOUNTS—J. J. DUFFY, District Fiscal Agent.

OPERATION—A. O. WAHA, Assistant District Forester; A. S. PECK, Assistant District Forester.

MAINTENANCE, W. B. BUNTON.

SILVICULTURE—T. S. WOOLSEY, Jr., Assistant District Forester; A. B. RECKNAGEL, Assistant District Forester.

ARIZONA—Reconnaissance of the Apache National Forest—J. H. Allison, in charge temporarily; assistants, G. H. Collingwood, J. W. Hough, Aldo Leopold, G. W. McKibbin, E. C. Shepard, Basil Wales, Springerville.

Reconnaissance of the Crook National Forest—T. B. Longwell, in charge; assistants, D. D. Harkness, A. E. Moss, J. W. Spencer, Dave Winbray, Safford.

ARKANSAS—Collection of data for volume and growth study of shortleaf pine—L. L. Janes, Hot Springs.

NEW MEXICO—Reconnaissance of the Gila National Forest—Barrington Moore, in charge; assistants, W. R. Allen, H. H. Conwell, H. DeForest, C. M. Howell, O. F. Swenson, Julian Weatherbee, E. Wohlenberg, Silver City.

Reconnaissance of the Pecos National Forest—H. G. Calkins, in charge; assistants, Harvey Blodgett, Harvey Ferguson, Fred Forbes, Carl Hamilton, H. L. Johnson, L. F. Lee, L. O. Miles, E. D. Rogers, R. T. Ross, T. F. Wells, Cowles.

SILVICS, COCONINO FOREST EXPERIMENT STATION—G. A. PEARSON, in charge; assistants, H. D. BURRALL, Flagstaff, Ariz., and H. H. GREENAMYRE, Springerville, Ariz.

Study of woodland type—W. B. Mulford and F. J. Phillips, Albuquerque N. Mex.

GRAZING—J. K. CAMPBELL, Assistant District Forester; JOHN KERR, Assistant District Forester.

LANDS—FRANK C. W. POOLER, Assistant District Forester, in charge.

NATIONAL FORESTS

ARIZONA

APACHE—John D. Guthrie, Forest Supervisor, Springerville (WU, P-WF); Aldo Leopold, Forest Assistant.

CHIRICAHUA—A. H. Zachau, Forest Supervisor, Portal (WU, P-WF).

COCONINO—Willard M. Drake, Acting Forest Supervisor, Flagstaff (WU, P-WF); J. C. Kircher, Forest Assistant.

CORONADO—Robert J. Selkirk, Forest Supervisor, Tucson (WU, P-WF); Robert L. Rogers, Deputy Forest Supervisor.

CROOK—T. T. Swift, Forest Supervisor, Safford (WU-WF).

GARCES—Robert J. Selkirk, Forest Supervisor, Tucson (WU, P-WF); Robert L. Rogers, Deputy Forest Supervisor.

PRESCOTT—C. H. Hinderer, Forest Supervisor, Prescott (WU-WF); J. C. McNelty, Deputy Forest Supervisor.

SITGREAVES—A. J. MacKay, Forest Supervisor, Snowflake (WU, P-WF); Chas. H. Jennings, Deputy Forest Supervisor.

TONTO—R. G. Willson, Forest Supervisor, Roosevelt (WU-WF).

TUSAYAN—Stanton G. Smith, Forest Supervisor, Williams (WU, P-WF); E. H. Crabb, Deputy Forest Supervisor.

ZUNI—See New Mexico.

ARKANSAS

ARKANSAS—D. W. Adams, Forest Supervisor, Hot Springs (WU-WF); S. A. Chappell, Deputy Forest Supervisor; C. J. Heller, Forest Assistant.

OZARK—Francis Kiefer, Forest Supervisor, Harrison (WU-WF); Ralph C. Huey, Deputy Forest Supervisor.

FLORIDA

CHOCTAWHATCHEE-OCALA—I. F. Eldredge, Forest Supervisor, De Funiak Springs; W. F. Hill, Deputy Forest Supervisor.

NEW MEXICO

ALAMO—C. C. Hall, Forest Supervisor, Alamogordo (WU, P-WF); R. F. Balthis, Deputy Forest Supervisor.

CARSON—Ross McMillan, Forest Supervisor, Antonito, Colo. (WU-G); Harry C. Hall, Deputy Forest Supervisor; Frederick R. Starr, Forest Assistant.

CHIRICAHUA—See Arizona.

DATIL—W. H. Goddard, Forest Supervisor, Magdalena (WU, P-WF).

GILA—W. H. B. Kent, Forest Supervisor, Silver City (WU-WF); Barrington Moore, Forest Assistant; Fort Bayard Nursery—H. C. Turner, Forest Planting Assistant.

JEMEZ—Frank E. Andrews, Forest Supervisor, Santa Fe (WU, P-WF); B. M. Thomas, Deputy Forest Supervisor.

LINCOLN—J. A. Kinney, Forest Supervisor, Capitan (WU, P-WF).

MANZANO—W. R. Mattoon, Forest Supervisor, Albuquerque (WU, P-WF); James F. Mullen, Deputy Forest Supervisor.

PECOS—Thos. R. Stewart, Forest Supervisor, Santa Fe (WU, P-WF); Hugh G. Calkins, Deputy Forest Supervisor; Las Gallinas Nursery—A. Hedricks, Forest Planting Assistant.

ZUNI—A. D. Read, Forest Supervisor, Gallup (WU, P-WF); Frederic Winn, Deputy Forest Supervisor.

OKLAHOMA

WICHITA—Frank Rush, Game Warden, in Charge, Cache (WU-WF).

DISTRICT 4

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Forest Service Building, Ogden, Utah.

E. A. SHERMAN, District Forester; FRANKLIN W. REED, Associate District Forester.

LAW—Office of the Solicitor (Forest Service Branch). W. C. HENDERSON, Assistant to the Solicitor and Law Officer; A. W. JENSEN, Assistant to the Solicitor and Assistant Law Officer.

ACCOUNTS—Q. R. CRAFT, District Fiscal Agent.

OPERATION—A. C. McCain, Assistant District Forester; A. T. Mitchelson, District Engineer.

Maintenance, Felix T. Moore.

SILVICULTURE—L. L. White, Assistant District Forester.

Timber Sales, Assistant District Forester in Silviculture.

Arizona—Reconnaissance of Kaibab National Forest, D. M. Lang, in charge; assistants, Nils B. Eckbo, Sidney S. Stewart, Reese W. Taylor, John E. Ingram, and R. Rosenbluth.

Idaho—Reconnaissance Salmon National Forest—C. P. Wilber.

Reconnaissance of Targhee National Forest—C. E. Dunston.

Preparation of map and reconnaissance report of timber on Sawtooth National Forest—C. P. Wilber, Ogden, Utah.

Planting, J. M. Fetherolf.

Silvics, E. R. Hodson.

Collection of data for volume and yield growth study of western yellow pine, Weiser National Forest—E. R. Hodson.

GRAZING—Homer E. Fenn, Assistant District Forester; A. C. McCain, Assistant District Forester; G. G. Bentz, Assistant District Forester.

Grazing Reconnaissance—A. E. Aldons, Plant Ecologist, Cache National Forest, Logan, Utah.

LANDS—T. C. Hoyt, Assistant District Forester, in Charge.

SUPPLY DEPOT—A. M. Smith, Property Clerk.

Property Audit—J. G. Falck, Property Auditor; H. B. Cramer, Chief of Records.

NATIONAL FORESTS

ARIZONA

Dixie—See Utah.

Kaibab—John H. Clark, Forest Supervisor, Kanab, Utah (WU-WF); Daniel K. Judd, Deputy Forest Supervisor.

IDAHO

Boise—E. Grandjean, Forest Supervisor, Boise (WU-Am); M. S. Benedict, Deputy Forest Supervisor.

Cache—See Utah.

Caribou—N. E. Snell, Forest Supervisor, Idaho Falls (WU-Am); L. J. Phelan, Deputy Forest Supervisor; James H. Johnson, Grazing Assistant.

Challis—David Laing, Forest Supervisor, Challis (WU-Am).

Idaho—Henry A. Bergh, Forest Supervisor, McCall (WU-P).

Lemhi—C. I. Huddle, Forest Supervisor, Mackay (WU-Am).

Minidoka—Wm. McCoy, Forest Supervisor, Oakley (WU-Am).

Palisade—Dan S. Pack, Forest Supervisor, St. Anthony (WU-Am); Ulrich C. Pogge, Deputy Forest Supervisor; Charles A. Bean, Deputy Forest Supervisor.

Payette—Guy B. Mains, Forest Supervisor, Emmett (WU-Am); Frank J. Ryder, Deputy Forest Supervisor.

POCATELLO—J. F. Bruins, Acting Forest Supervisor, Pocatello (WU-Am); A. L. Brower, Forest Assistant; Pocatello Nursery—P. T. Wrensted, Forest Ranger.

SALMON—James M. Ryan, Forest Supervisor, Salmon (WU-Am); John A. Pearson, Deputy Forest Supervisor; F. T. McLean and C. P. Wilber, Forest Assistants.

SAWTOOTH—C. N. Woods, Forest Supervisor, Hailey (WU-Am); H. G. McPheters, Deputy Forest Supervisor.

TARGHEE—David Barnett, Forest Supervisor, St. Anthony (WU-Am); Chester B. Morse, Deputy Forest Supervisor.

WEISER—J. B. Lafferty, Forest Supervisor, Weiser (WU-Am); W. M. Campbell, Deputy Forest Supervisor; A. E. Oman, Forest Assistant.

NEVADA

HUMBOLDT—C. Sydney Tremewan, Forest Supervisor, Elko (WU-WF); W. W. Blakeslee, Deputy Forest Supervisor.

MOAPA—Thomas J. Collins, Acting Forest Supervisor, Las Vegas (WU-WF).

NEVADA—R. F. Mathias, Forest Supervisor, Ely (WU-WF); Rudolph Dieffenbach, Forest Assistant.

TOIYABE—James L. Pelton, Acting Forest Supervisor, Austin (WU, P-WF).

UTAH

ASHLEY—W. M. Anderson, Forest Supervisor, Vernal (WU-WF).

CACHE—Clinton G. Smith, Forest Supervisor, Logan (WU-Am); J. E. Rothery, Deputy Forest Supervisor.

DIXIE—John Raphael, Forest Supervisor, St. George (WU-WF).

FILLMORE—Wm. Hurst, Forest Supervisor, Beaver (WU-WF); George C. Thompson, Deputy Forest Supervisor.

FISHLAKE—Carl B. Arentson, Acting Forest Supervisor, Salina (WU-WF); Oluf G. Nielson, Deputy Forest Supervisor.

LA SAL—Ed. Taylor, Acting Forest Supervisor, Moab (WU-WF).

MANTI—C. L. Smith, Forest Supervisor, Ephraim (WU-WF); Ernest Winkler, Deputy Forest Supervisor; Parley Christiansen, Grazing Assistant.

MINIDOKA—See Idaho.

NEBO—H. F. Studley, Acting Forest Supervisor, Nephi (WU-WF).

POCATELLO—See Idaho.

POWELL—Geo. H. Barney, Forest Supervisor, Escalante (WU-WF).

SEVIER—O. C. Snow, Forest Supervisor, Panguitch (WU-WF).

UINTA—W. I. Pack, Forest Supervisor, Provo (WU-WF); W. Jones Bowen, Grazing Assistant.

WASATCH—E. H. Clarke, Forest Supervisor, Salt Lake City (WU, P-Am, WF); Wasatch Nursery—N. J. Fetherolf, Forest Planting Assistant.

WYOMING

ASHLEY—See Utah.

CARIBOU—See Idaho.

TARGHEE—See Idaho.

TETON—R. E. Miller, Forest Supervisor, Jackson (WU-Am).

WYOMING—James E. Jewell, Forest Supervisor, Afton (WU-Am); Glidden J. Barstow, Grazing Assistant.

DISTRICT 5

California and southwestern Nevada. Office, First National Bank Building, San Francisco, Cal.

F. E. OLMSTED, District Forester; COERT DUBOIS, Associate District Forester.

LAW—Office of the Solicitor (Forest Service Branch); H. P. DECHANT, Assistant to the Solicitor and Law Officer.

ACCOUNTS—F. C. THOMPSON, District Fiscal Agent.

OPERATION—ROY HEADLEY, Assistant District Forester.

MAINTENANCE, M. R. Tillotson.

SILVICULTURE—T. D. WOODBURY, Assistant District Forester.

TIMBER SALES, Assistant District Forester in Silviculture.

A study of the yield of eucalyptus in California in cooperation with the State—L. Margolin; assistant, J. H. Johnston, Los Angeles, Cal.

SILVICS, Assistant District Forester in Silviculture.

Study of tree diseases in the California National Forests—E. P. Meinecke, Consulting Pathologist, Hot Springs, Cal.

GRAZING—JOHN H. HATTON, Assistant District Forester; M. B. ELLIOTT, Assistant District Forester.

LANDS—L. A. BARRETT, Assistant District Forester, in charge.

PRODUCTS—C. S. SMITH, Assistant District Forester.

WOOD PRESERVATION—Experiments to determine the best methods of seasoning *Eucalyptus globulus* poles, logs, and lumber, in cooperation with the estate of Adolph Sutro, the Pacific Land Investment Company, the Mount Tamalpais Cemetery Association, the Parkside Realty Company, and the Pioneer Wood Company; and *Eucalyptus viminalis* logs, in cooperation with the University of California—C. Stowell Smith, San Francisco, Cal.

Study of conditions found in the mines of California, with a view to recommending cooperation in the preservative treatment of mine timbers—C. Stowell Smith, San Francisco, Cal.

Design of treating plant and seasoning yard for telephone poles for the Pacific Telephone and Telegraph Company—C. Stowell Smith, San Francisco, Cal.

Experiments to determine the relative resistance to marine wood borers of different species of untreated timber and of Douglas fir treated by various preservatives and coatings—A. K. Armstrong, San Francisco, Cal.

Study of conditions on and near the Plumas National Forest, to determine the feasibility of erecting a portable treating plant—C. Stowell Smith.

NATIONAL FORESTS

CALIFORNIA

ANGELES—R. H. Charlton, Forest Supervisor, Los Angeles (WU, P-WF); Ernest B. Long, Deputy Forest Supervisor; J. M. Grant, Forest Expert, in charge of planting operations; Serope Y. Parnay, Forest Planting Assistant, San Bernardino.

CALIFORNIA—Allen H. Hodgson, Forest Supervisor, Willows (P-WF); N. B. Drew, Deputy Forest Supervisor.

CLEVELAND—H. A. E. Marshall, Forest Supervisor, San Diego (WU, P-WF); Percy L. Day, Deputy Forest Supervisor; F. L. Rickey, Planting Assistant.

ELDORADO—Evan W. Kelley, Acting Forest Supervisor, Placerville (WU-WF).

INYO—A. H. Hogue, Forest Supervisor, Bishop (WU-WF).

KERN————, Forest Supervisor, Bakersfield (WU-WF).

KLAMATH—W. B. Rider, Forest Supervisor, Yreka, (WU-WF); J. R. Hall, Deputy Forest Supervisor; Shirley W. Allen, Forest Assistant.

LASSEN—L. A. H. Kling, Forest Supervisor, Red Bluff (P-WF); J. C. La Plant, Deputy Forest Supervisor; Henry L. Boldenweck, Forest Agent.

MODOC—C. E. Rachford, Forest Supervisor, Alturas (P-WF); Vernon L. Bonner, Deputy Forest Supervisor; Belknap C. Goldsmith, Forest Assistant.

MONO—See Nevada.

MONTEREY—Raymond Tyler, Forest Supervisor, Salinas (WU-WF).

PLUMAS—D. N. Rogers, Forest Supervisor, Quincy (WU-WF); W. G. Durbin, Deputy Forest Supervisor; R. S. Maddox, Forest Assistant.

SANTA BARBARA—Willis M. Slosson, Forest Supervisor, Santa Barbara (P-WF); H. G. Merrill, Deputy Forest Supervisor.

SEQUOIA—Allan B. Patterson, Forest Supervisor, Hot Springs, Tulare County (WU via Portersville-WF); W. C. Burton, Deputy Forest Supervisor.

SHASTA—R. F. Hammatt, Forest Supervisor, Sisson (P-WF); Philip T. Harris, Deputy Forest Supervisor; John D. Coffman, Forest Assistant.

SIERRA—C. H. Shinn, Forest Supervisor, Northfork (WU via Fresno-WF); M. A. Benedict, Deputy Forest Supervisor; H. J. Tompkins, Forest Assistant.

STANISLAUS—R. W. Ayres, Forest Supervisor, Sonora (WU-WF); J. V. Wulff, Forest Assistant.

TAHOE—R. L. P. Bigelow, Forest Supervisor, Nevada City (WU-WF); M. B. Pratt, Deputy Forest Supervisor; J. Alfred Mitchell, Forest Assistant.

TRINITY—F. H. Hafley, Forest Supervisor, Weaverville (WU-WF); W. A. Huestis, Deputy Forest Supervisor; Ernest V. Jotter, Forest Assistant.

NEVADA

INYO—See California.

MONO—Wm. M. Maule, Forest Supervisor, Gardnerville (WU-WF).

TAHOE—See California.

DISTRICT 6

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

C. S. CHAPMAN, District Forester; GEO. H. CECIL, Associate District Forester.

LAW.—Office of the Solicitor (Forest Service Branch); W. F. STALEY, Assistant to the Solicitor and Law Officer; D. F. MCGOWAN. Assistant to the Solicitor and Assistant Law Officer.

ACCOUNTS—A. H. COUSINS, District Fiscal Agent.

OPERATION—C. H. FLORY, Assistant District Forester; W. E. HERRING, District Engineer.

MAINTENANCE, SHIRLEY BUCK.

SILVICULTURE—F. E. AMES, Assistant District Forester; C. S. JUDD, Assistant District Forester.

TIMBER SALES, Assistant District Foresters in Silviculture; F. B. KELLOGG, Forest Assistant.

OREGON—Examination of proposed sale areas on the Crater National Forest—D. L. McKay, Scaler, Medford.

Examination of proposed timber sales on the Whitman National Forest—W. T. Andrews, Lumberman, Sumpter.

WASHINGTON—Scaling on the Olympic National Forest—Edwin C. Erickson, Scaler, Olympia.

Examination of proposed sale areas on the Rainier National Forest—J. P. Hughes Lumberman Orting.

PLANTING, J. F. KÜMMEL.

SILVICS, T. T. MUNGER.

GRAZING—H. K. O'BRIEN, Assistant District Forester; T. P. MACKENZIE Assistant District Forester.

LANDS—C. J. BUCK, Assistant District Forester

PRODUCTS—J. B. KNAPP, Assistant District Forester.

TIMBER TESTS—Testing laboratory in cooperation with the University of Washington, Seattle, Wash.—O. P. M. Goss, in charge; assistant, C. W. Zimmerman.

WOOD PRESERVATION—Construction and installation of an open-tank treating plant in cooperation with the University of Washington Forest School—H. B. Oakleaf and O. P. M. Goss, Seattle, Wash.

Preparation of report on inspection of Northern Pacific test track in cooperation with District 1 and engineers of the Northern Pacific Railway Company—H. B. Oakleaf, Portland, Oreg.

WOOD UTILIZATION—Study of the market for and uses of forest products on the Olympic Peninsula, in the State of Washington—J. B. Knapp and John F. Sullivan Portland, Oreg.

NATIONAL FORESTS

ALASKA

CHUGACH—W. A. Langille, Forest Supervisor, Ketchikan (SC, U. S. A., WU-AP, Am); Lage Wernstedt, Forest Assistant.

TONGASS—W. A. Langille, Forest Supervisor, Ketchikan (SC, U. S. A., WU-AP, Am); Lage Wernstedt, Forest Assistant.

CALIFORNIA

CRATER—See Oregon.

SISKIYOU—See Oregon.

OREGON

CASCADE—C. R. Seitz, Forest Supervisor, Eugene (WU, P-WF); J. R. Harvey, Deputy Forest Supervisor; E. B. Starr, Forest Assistant.

CRATER—M. L. Erickson, Forest Supervisor, Medford (WU, P-WF); S. S. Swenning, Deputy Forest Supervisor; H. D. Foster, Forest Assistant.

DESCHUTES—A. S. Ireland, Forest Supervisor, Prineville (PT & T-Am via Shaniko, WF via Shaniko); B. F. Johnson, Deputy Forest Supervisor.

FREMONT—Guy M. Ingram, Forest Supervisor, Lakeview (WU via Klamath Falls-WF); G. D. Brown, Deputy Forest Supervisor.

MALHEUR—Cy. J. Bingham, Forest Supervisor, John Day (WU via Baker City-Am, WF via Baker City); D. B. Reynolds, Deputy Forest Supervisor.

OREGON—T. H. Sherrard, Forest Supervisor, Portland (WU, P-Am, WF, N); Ralph S. Shelley, Deputy Forest Supervisor; W. B. Osborne and Max Rothkugel, Forest Assistants.

SISKIYOU—R. L. Fromme, Forest Supervisor, Grants Pass (WU, P-WF); N. F. McDuff, Deputy Forest Supervisor; H. Haefner, Forest Assistant.

SIUSLAW—A. E. Cohoon, Forest Supervisor, Eugene (WU, P-WF); David E. Fitton, Deputy Forest Supervisor.

UMATILLA—Thos. E. Chidsey, Forest Supervisor, Heppner (WU-Am).

UMPQUA—S. C. Bartrum, Forest Supervisor, Roseburg (WU, P-WF); E. H. McDaniels, Forest Assistant.

WALLOWA—H. W. Harris, Forest Supervisor, Wallowa (WU-Am); S. A. Brown, Deputy Forest Supervisor; Charles Black, Grazing Assistant; E. O. Siecke, Forest Assistant.

WENAHA—See Washington.

WHITMAN—Henry Ireland, Forest Supervisor, Sumpter (WU via Baker City-Am, WF via Baker City); M. L. Merritt and B. T. Harvey, Forest Assistants.

WASHINGTON

CHELAN—G. W. Milham, Forest Supervisor, Chelan (PT & T-Am, GN via Wenatchee); D. S. Rice, Deputy Forest Supervisor.

CHELAN (OKANOGAN)—H. M. Hale, Acting Forest Supervisor, Okanogan.

COLUMBIA—H. O. Stabler, Forest Supervisor, Portland, Oreg. (WU, P-Am, WF, N); Homer Ross, Deputy Forest Supervisor; A. R. Wilcox, Forest Assistant.

COLVILLE—C. C. Reid, Forest Supervisor, Republic (WU, P-Am, GN); F. W. Cleator, Deputy Forest Supervisor.

OLYMPIC—R. E. Benedict, Forest Supervisor, Olympia (WU-Am, GN, N); A. A. Parker, Deputy Forest Supervisor.

RAINIER—G. F. Allen, Forest Supervisor, Orting (WU-Am, N); H. L. Hurd, Deputy Forest Supervisor; E. J. Fenby, Forest Assistant.

SNOQUALMIE—B. P. Kirkland, Forest Supervisor, Seattle (WU, P-N, GN, WF); E. T. Clark, Deputy Forest Supervisor.

WASHINGTON—C. H. Park, Forest Supervisor, Bellingham (WU, P-Am, GN, N); F. H. Brundage, Deputy Forest Supervisor.

WENAHA—J. M. Schmitz, Forest Supervisor, Walla Walla (WU-Am, N).

WENATCHEE—A. H. Sylvester, Forest Supervisor, Leavenworth (WU-Am, GN); S. A. Blakenship, Deputy Forest Supervisor; C. P. Willis, Forest Assistant.

SERVICE CHANGES IN JUNE

APPOINTED

DENDROLOGY—H. P. Brown, Expert.

SILVICULTURE—Silvics: A. H. Graves, Expert.

GRAZING—Charles E. Fleming, Plant Ecologist; William A. Dayton, Plant Ecologist.

PRODUCTS—Laboratory: John H. Thickens, Expert; Emil L. Leasman, Expert; Eloise Gerry, Expert; James C. Lawrence, Agent; Robert C. Palmer, Agent; Frank J. Hallauer, Engineer in Timber Tests; Thomas R. C. Wilson, Engineer in Timber Tests; James Coyle, Laboratory Assistant in Timber Tests.

DISTRICT 1—Operation: Forest Guards—George E. McKinsey, Absaroka National Forest; J. K. Dwinelle, R. T. Guthrie, Frank J. Mosher, and H. J. Smith, Beartooth National Forest; Charles E. Brackett, Don Francis, Frederick M. James, L. W Kingsbury, and James Campbell Whitham, Beaverhead National Forest; Dayton Donica and William Fuller, Bitterroot National Forest; C. R. Bratton, J. F. Camp bell, W. C. McCormick, and S. S. Craig, Blackfeet National Forest; J. F. Buchek, J. P. DeLano, J. B. Miller, and Murray E. Skillman, Cabinet National Forest; E. L Badgley, William Ball, William M. Beebe, James E. Bowles, Samuel P. Bowles, Daniel P. Brady, Albert Cochran, Howard Cochran, W. D. Farrand, L. A. Fenn, J. F. Grubbs, Zan Jordan, Jesse Kitchen, C. J. Kress, Eugene Langdon, Jake Leitch Burt Leonard, Arved Lind, Louis Lisne, N. A. Litherland, J. W. Long, Bert Mackey, A. H. Moore, Andy Paulsen, Arnold Pesh, G. W. Schattner, Beta Shaw, G. W. Shirk, C. J. Strite, Francis Tweedy, Claude Watson, Harry Wray, and William Zumwalt, Clearwater National Forest; F. W. Beier, jr., William C. Bessey, A. E. Best, James Danielson, Walter H. Ellis, Harvey Fearn, L. A. Hollingshead, C. M. Keyes, Otto Kottkey, D. H. Lewis, Frank Long, Young McBee, Charles Magee, Robert Newmeyer, Harry A. Powers, Daniel J. Redmond, T. F. Siefen, A. B. Sisson, John B. Taylor, and J. A. Whitaker, Coeur d'Alene National Forest; E. T. Culver, Charles Sheridan, and A. A. Whitman, Gallatin National Forest; A. F. Bishop, Johile A. Eamon, Fred Freymiller, Ira Edward Hand, Harold W. Horton, John B. Somers and Joe M. Taylor, Kaniksu National Forest; John Nesbit and Joseph Bigley, Lewis & Clark National Forest; Alex L. Berg, Thomas Edwards, L. H. Foote, Arthur Gooley, Edward Sell, William F. Simons, and William D. Vealey, Lolo National Forest; Ray O. Bullerdick, Fred W. Findley, Paul F. Pierce, Hector E Plummer, John L. Smith, and Andrew J. Watkins, Madison National Forest; Karl H. Alm and Andrew Zalinka, Minnesota National Forest; Fred Baracco, Milo Hoyt, James Hutchins, John Martz, William Mason, and M. H. Poe, Missoula National Forest; John T. Brown, William John Fahey, Henry Goodwin, Rogers McCarthy, J. H. McEvers, J. M. Munden, and William H. Vincent, Nez Perce National Forest;

Phil S. Armstrong, W. P. Brashear, C. W. Edmundson, John Hauerwas, Robert Lang, Fritz Lundstrum, M. H. McDuffie, James McGregor, J. E. Ryan, Thomas Simpson, and Jacob Stonestreet, Pend Oreille National Forest; Michael A. Collet, Albin Drakenberg and L. Vernon Slonaker, Superior National Forest. Assistant Forest Rangers—Walter R. Eyman and Henry J. Lampe, Absaroka National Forest; Frank A. Clark, Edward F. Foreman, William E. Lockhart, and Hosea T. Parker, Beartooth National Forest; Argyl L. Runbaugh, Beaverhead National Forest; George A. Bignell and Aquilla E. Clark, Blackfeet National Forest; Benjamin F. Saint, Cabinet National Forest; James D. Agner, Richard D. W. Friday, Raymond E. Maurer, Roy P. Monroe, and Frank B. Rogers, Clearwater National Forest; Samuel F. Millsap, Coeur d'Alene National Forest; James W. Stanton, Custer National Forest; Charles H. Edwards, Marion N. Jessen, Robert W. McKnight, John A. Morrow, and Harold Townsend, Deerlodge National Forest; Ellis B. Hoke, Frank McClung, and Wilhelm Toepel, Flathead National Forest; Melvin D. Mizner and George C. Stevenson, Helena National Forest; John C. Ketridge, Clarence N. Lawrence, Ashley J. Roche, Perry R. Rogers, and Russell V. Tanner, Kootenai National Forest; James E. Adams and Price Townsend, Lewis & Clark National Forest; Harry C. Hockett and Charles E. Vealey, Lolo National Forest; Homer C. Bosworth, and William B. Race, Madison National Forest; Howard R. Flint, William E. Henderson, and Hiram K. Wright, Minnesota National Forest ; Clyde E. Green and Ralph H. Johnson, Michigan National Forest; Oral J. Berry, George Grigg, and Velters V. Logan, Missoula National Forest; Henry Huck and Richard E. Moses, Nezperce National Forest; John Keefe, jr., Ernest A. MacKay, and William A. Schell, Pend Oreille National Forest; Samuel J. Emswiler, Sioux National Forest; Leslie M. Brownell, Calvin A. Dahlgren, Walter L. Eisenach, John E. Mulligan, and Guy A. Terry, Superior National Forest. Forest Ranger—James W. Girard, Missoula National Forest. Forest Clerks—Lee Stratton, Beartooth National Forest; Royal G. Gick, Cabinet National Forest; Lester E. Palmer, Coeur d'Alene National Forest; Charles Fish, Gallatin National Forest; Clarence W. Miller, Kaniksu National Forest; Cuno R. Bryant, Kootenai National Forest; Frederick M. Cook, Pend Oreille National Forest. Clerk, Stenographer and Typewriter—Martha G. Barnett, Coeur d'Alene National Forest.

Lands: Stephen J. Humeston, Law Examiner.

District Office: Florence A. Johnson, Clerk, Stenographer and Typewriter; Ruth E. Wilson, Clerk, Stenographer and Typewriter; Charles F. Farmer, Draftsman.

District 2—Operation: Assistant Forest Rangers—Solon D. Ackley, Gunnison National Forest; William L. Barker, jr., Gustaf W. Gustafson, and Chas. H. Yust, Holy Cross National Forest; Edw. H. Boughton, Steven A. Morris, Harry G. Waechter, and Alexander H. Liddiard, Shoshone National Forest; Raymond A. Bowen, Sopris National Forest; Jesse C. Brothers, White River National Forest; Edw. N. Brown and Ford J. DeHaven, Leadville National Forest; Ben Burch, Cheyenne National Forest; Albro K. Cowles, Harold A. Gould, and Newell E. Hibbard, Black Hills National Forest; Fred S. Cuenin, Cochetopa National Forest; John O. Eames, and Walter I. Mickey, Hayden National Forest; J. Ward Emerson, Theodore Faunce, and Leonard B. Sellers, Montezuma National Forest; Lawrence G. Haynes, Kansas

National Forest; Walter J. Hill, Bonneville (WR) National Forest; George A. Hutchins and Elmer F. Reed, Uncompahgre National Forest; John B. Lansing and Angus H. Taylor, Routt National Forest; Earnest E. McKee, Bonneville (GR) National Forest; Guy E. Tefft and James A. Blatherwick, San Juan (W) National Forest; Randolph A. Wheeler and Leslie E. Wright, Bighorn National Forest; Orvil Wilson, Rio Grande National Forest; John P. Murray, Hayden National Forest; Walter R. Clayton, San Juan (E) National Forest. Forest Guards—Joseph Augspurger, Cheyenne National Forest; Lee F. Buchholz, Arapaho National Forest; Y. Zana David, Bighorn National Forest; Ray Enyeart, Wallace J. Peterson, and Bruno Bochmann, Pike National Forest; Walter Himes, George B. Kleckner, Wade W. Warr, and William W. Warr, San Juan (E) National Forest; Chas. W. McSherry and Burns Will, Medicine Bow National Forest; Harry H. Owen, San Juan (W) National Forest; Harold S. Priestley, Montezuma National Forest; Roy Smith, Black Hills National Forest; Kay C. Clark, Bonneville (WR) National Forest; Truman O. Foley, Uncompahgre National Forest; Percy Newlin, Bonneville (SW) National Forest; Henry J. Sievers and Harry A. Wade, Sopris National Forest. Forest Clerks—Joseph W. Collette, San Isabel National Forest; Fred J. Thompson, Sopris National Forest.

District 3—Operation: Assistant Forest Rangers—Charles L. Rak, Gila National Forest; Jennings D. McLeod and Thomas M. Jones, Ozark National Forest; John B. Hess, Ozark National Forest; Philip V. Dieckman, Carson National Forest; James H. Sizer, Apache National Forest; Jacob L. Pritchard, Apache National Forest; Benjamin F. Hooten and Marshall D. Loveless, Datil National Forest; Joseph A. Bateman and Charles A. Plymale, Arkansas National Forest; Lorenzo B. Maxwell, Coconino National Forest. William DeAdder, Forest Guard Hunter, Coconino National Forest; D. C. Whittaker, Forest Guard Trapper, Datil National Forest; C. H. Shinn, Forest Guard Hunter and Trapper, Apache National Forest; Charlie H. Rogers, Forest Guard, Choctawhatchee National Forest; Alfred C. Everard, Forest Guard, Arkansas National Forest. Forest Clerks—Leo F. Wolcott, Apache National Forest; Frank E. Schneider, Prescott National Forest; William L. Bishop, Tonto National Forest; Bowden L. Kenworthy, Carson National Forest. L. Edna Patchin, Clerk, Typewriter, Alamo National Forest; Adda B. Wertz, Clerk, Stenographer and Typewriter, Arkansas National Forest.

Silviculture: Field Assistants—O. F. Swenson and E. Wohlenberg, H. DeForest, H. H. Conwell, Walter R. Allen, Gila National Forest; E. C. Shepard, H. Basil Wales, G. W. McKibbin, A. E. Moss, and G. H. Collingwood, Apache National Forest; J. W. Spencer and J. W. Hough, Crook National Forest; E. D. Rogers, R. T. Ross, L. O. Miles, Carl Hamilton, L. F. Lee, Fred Forbes, Harvey P. Blodgett, and Harvey Ferguson, Pecos National Forest; Raymond E. Hopson, W. L. Myers, District Office. Forest Assistants—Oliver F. Bishop, Herman Krauch, Charles D. Faunce, Max H. Foerster, George C. Morbeck, Ira T. Yarnall, William J. Duppert, Robert S. Wallace, Harold H. Greenamyre, Raymond E. Marsh, and Robert L. Deering, District Office (to be assigned to Forests later). Walter Mulford, Forest Expert District Office.

District 4.—Operation: Forest Assistants—Lester E. Hitchcock, Dana Parkinson, and James B. Saxton, Kaibab National Forest; Samuel B. Locke and Harry B.

Maris, Salmon National Forest; Irwin W. Cook, Wm. N. Sparhawk, and William W. Twaddell, Targhee National Forest; Herman Work, Wyoming National Forest. Assistant Forest Rangers—Chas. DeMoisy, jr., and Seth B. Perry, Ashley National Forest; William H. Campbell, Henry K. Lewis, Edwin E. Stock, Boise National Forest; Hopkins Ira Rice, Cache National Forest; George W. Smith, Allen Williams, Challis National Forest; James W. Davis, Fred H. Betts, Idaho National Forest; Sterling L. Colton, Robert W. Strong, LaSal National Forest; Seth H. Ollerton, Nebo National Forest; Dr. B. Bailey, James A. Cahill, Bernard McNulty, Stanley D. Reed, Charles P. Thompson, William F. Thorne, Nevada National Forest; George S. Butler, James H. Jones, Edward A. Killpack, Lorin A. Loomis, Palisade National Forest; William L. Cleveland, Salmon National Forest; James E. Gurr, William M. Hurst, Sevier National Forest; Ira Latham, Wm. C. Shepard, Targhee National Forest; Lewis E. Hardy, Bartley J. Smithson, Toiyabe National Forest; Cyrus R. Hunter, Weiser National Forest; Dan Nielson, Wyoming National Forest. Field Assistant—O. L. Sponsler, Targhee National Forest. Forest Guards—William Copeland, Ruby C. Fields, Calvin T. Hardin, Frank Printz, Idaho National Forest; William H. George, J. L. Sanders, Palisade National Forest; C. H. Olsen, Roland Philips, Dan W. Woody, Payette National Forest; Frank Ayers, Monty E. Buster, Joseph Gautier, Salmon National Forest; John Sims, Sawtooth National Forest; Ralph J. Wilcock, Sevier National Forest; Walter Mellenthin, Targhee National Forest; Robert F. Kyle, Toiyabe National Forest; Clarence E. Favre, Henry H. Haines, Lawrence G. Wallace, Weiser National Forest; E. S. Edgerton, Arthur B. Glidden, Lee Smith, Paul L. Travis, Thomas Yeaman, Wyoming National Forest; Levon H. Kooyumkian, Targhee National Forest. Forest Clerks—James E. Scott, Ashley National Forest; Albert L. Moats, Challis National Forest; Charles D. Windes, Fillmore National Forest; Alfred P. Larson, Humboldt National Forest; Sidney C. Scribner, Idaho National Forest; Edgar B. King, Lemhi National Forest; Clement L. Lincoln, Palisade National Forest; Basil H. Felts, Payette National Forest; Edgar G. Hapke, Sawtooth National Forest; Harry L. Strembel, Sevier National Forest; Bruce L. Coulter, Teton National Forest; Irving A. Holt, Toiyabe National Forest; Alva C. Wycoff, Uinta National Forest; David A. West, Wasatch National Forest.

District 5—Accounts: Edward Dillon, Clerk.

Operation: Assistant Forest Rangers—Charles W. Sutcliffe, Tahoe National Forest; Albert R. Ivey, Tahoe National Forest; Howard Hufford, Lassen National Forest; Jonathan M. Stark, Lassen National Forest; Henry W. Atcheson, Mono National Forest; Charles V. Brereton, California National Forest; Barry J. Hill, Klamath National Forest; Edmund D. Cimpher, California National Forest; Marvin M. Morgan, Klamath National Forest; Clarence L. Russell, California National Forest; Clarence Ruff, California National Forest; Hosea L. Clark, Sierra National Forest; William S. Everts, Monterey National Forest; John M. Farley, Sierra National Forest; Jesse C. Werly, Sierra National Forest; Miner R. Tillotson, District Office; David Parker Godwin, District Office; William B. Duncan, Sierra National Forest; Oliver E. Fowler, Stanislaus National Forest; Walter L. Parsons, Stanislaus National Forest; J. Raymond Stephens, Stanislaus National Forest; Earl H.

Thraves, Stanislaus National Forest; Edward V. Clark, Plumas National Forest; Dougald A. McMillan, Plumas National Forest; Edward L. Varney, Plumas National Forest; Thomas J. Collins, Sequoia National Forest; William J. Derby; Sequoia National Forest; Roy Oldfield, Sequoia National Forest; George W. Purdy, Sequoia National Forest; Edward William Fessel, Tahoe National Forest; Howard R. Higgins, Stanislaus National Forest; Roy L. Walkup, California National Forest; Robert C. Woodburn, Tahoe National Forest; George E. King, Tahoe National Forest; Charles W. Bates, California National Forest, Lloyd P. Allen, Sequoia National Forest; Parker Talbot, Sequoia National Forest; Vivian C. Noddin, Tahoe National Forest; Ben L. Johnson, Cleveland National Forest; Joseph C. Elliott, Stanislaus National Forest; Joseph H. Marshall, Klamath National Forest; William V. Bayley, Santa Barbara National Forest; Carl O. Brenner, Cleveland National Forest; John E. Moseley, Cleveland National Forest; Matthew J. Keegan, Cleveland National Forest. Forest Guards—William Marcrum, Inyo National Forest; Earl Slinkard, Sequoia National Forest; Ralph E. Noddin, Sierra National Forest; Joseph W. Drouillard, Inyo National Forest; Morris F. Finley, Inyo National Forest; F. J. Dooley, Tahoe National Forest; Nathan E. Duncan, Sierra National Forest; William B. Duncan, Sierra National Forest; William J. Clark, Mono National Forest; Alvin T. Bodee, Inyo National Forest; John C. Blake, Sierra National Forest; Van B. Sleeper, California National Forest; Walter R. Atkeson, Inyo National Forest; George F. Bowden, Inyo National Forest; Levi C. Garlock, Sequoia National Forest; Lee West, Sierra National Forest; Edward Elmgren, Tahoe National Forest; Evan A. Joy, Tahoe National Forest; William F. E. Kelly, Tahoe National Forest; John B. Ripley, Tahoe National Forest; Edwin F. Smith, Tahoe National Forest; Henry A. Kloppenburg, Plumas National Forest; Walter L. Kelley, Plumas National Forest; Reuben P. Box, Trinity National Forest; Leon J. Warren, Mono National Forest; Tom W. Lee, Lassen National Forest; Howard W. Jones, Mono National Forest; O. M. Evans, Trinity National Forest; Lemuel M. Wright, Mono National Forest; William Elmer Newton, Sequoia National Forest; Walter L. Butts, Tahoe National Forest; Eugene E. Clark, Plumas National Forest; Allan J. Stanley, Plumas National Forest; Walter J. Zachan, Angeles National Forest.

District Office: Gertrude M. Smith, Clerk (stenographer and typewriter); Frederick H. Smith, Clerk (stenographer and typewriter).

Silviculture: Henry L. Boldenweck, Forest Agent, Lassen National Forest (extended); John H. Johnston, Field Assistant, District Office; Melville Nottage, Forest Student, Trinity National Forest; H. W. Curry, Forest Student, Trinity National Forest.

District 6—Operation: Assistant Forest Rangers—Walter W. Allison, Hugh V. Anderson, Hugh C. Austin, Robert Bennett, Carl E. Bell, Joe A. Brinkley, Mortimer J. Brown, J. R. Bruckart, Grover C. Burch, Edmond B. Canby, Louis A. Carpenter, Frank L. Colvig, Revis Costelloe, John B. Curl, Clinton W. Combs, Edgar W. Donnelly, Albion W. Eastman, Lawrence Frizzell, William C. Fruit, Andrew J. Graden, Joe A. Graham, William H. Gibbons, Edward Everett Harpham, E. J. Hanzlik, Ellsworth S. Holderman, Pearl V. Ingram, Thomas C.

Johnson, Ira E. Jones, Frank L. Kingsley, M. Donald Knapp, Charles T. Lewis, Walter H. Leve, E. H. Lough, J. B. McIntire, Clifton G. McGuire, James McKenzie, Frank C. McMillan, Fred A. Maty, Robert J. O'Farrell, Oscar Pratt, John H. Russell, Fritz Sethe, John M. Schurr, James J. Simerville, Elmer G. Thomas, James J. Walsh, Harvey E. Vincent, Horace G. Whitney, Jason P. Williams, John H. Wittrock. Forest Guards—Henry Ahlvers, Daniel A. Barclay, Fred C. Bartholomew, J. D. Bolton, Fred C. Bradford, W. Albert Burns, Thomas L. Conger, Harry DeVoe, George Donaldson, J. A. Dotson, Alep Dowell, James Ewing, Henry W. Fisk, Floyd E. Gilchrist, C. F. Groom, Albert M. Hollenbeck, C. M. Irvine, Charles C. Jensen, Harry E. Johnson, Lloyd M. Judy, Edward S. Kerby, Thomas Kibbe, Henry E. Koontz, Charles M. Lane, C. W. Lewis, Gus McCullough, J. S. McLean, L. H. Maberry, Daniel N. McDonald, A. O. Masiker, John R. Muir, Albert L. Peachy, Oscar W. Pearce, Fred Porter, Clifford J. Rairdon, George L. Riley, William C. Rovers, Laurence Ryan, Henry Spradling, George E. Stevenson, Oscar Stoneberg, George E. Taylor, John A. Thompson, Allen Townes, Cleveland A. Walton, William O. Watson, Charles W. Weyburn, Henry A. Zevely, Clarence Anderson, D. L. J. Ball, H. H. Barbur, Cecil Bell, George J. Bohn, P. S. Bonney, William S. Cahill, J. B. Caruthers, Walter H. Caverhill, E. H. Chlaupek, G. M. Couzet, J. H. Cover, Eugene Crane, Floyd I. Dobson, J. Dockery, H. J. Eberly, Walter L. Elich, Harry R. Elliott, Earl L. Emery, Wiley E. Escher, E. J. Gibson, Harold Gill, Thomas W. Greve, Robert A. Gustafson, Jules Hagon, C. C. Haumitt, R. F. Hemingway, R. Hodson, G. W. Hutton, Herman M. Johnson, Otto Katy, William S. Kriebel, B. R. Kudlich, James Lowden, Walter F. McCarty, Norman Macauley, Hugh J. Macdonald Samuel W. Meadows, jr., Daniel K. Millington, J. G. Morgan, E. J. Murnen, Adolph Nilsson, Sig Norman, H. D. Nuffer, Oscar J. Olson, J. E. Orr, Paul H. Pederson, J. F. Pernot, C. R. Pope, Henry Randles, Daniel Robinson, A. Rosenmond, Robert A A. Sibenman, Grover C. Simmons, F. J. Starker, J. E. Stevenson, Donald B. Stewart, Clarence H. Sweet, Ray H. Thompson, Clarence Underwood, J. D. Van Dyke, R. W. Walker, R. Watson, L. S. Wellington, Wendell R. Whitney, J. F. Winniford, Newell L. Wright, Harry A. Young, jr. Forest Guards (Hunters)—Joseph K. Carper, Carl H. Parker, Thomas J. Weatherford. Forest Clerks—Harry M. White, Hattie M. Snow, Murril Johnson, Maud M. DaMotta, Emma J. Baker, Clerk (Stenographer and Typewriter).

Silviculture: Laura Forsberg, Clerk (Stenographer and Typewriter).

RESTORED TO THE ROLLS

SILVICULTURE—A. K. Chittenden, Forest Examiner. Silvics: A. W. Williamson, Forest Assistant.

DISTRICT 1—Operation: N. C. Brown, Deputy Forest Supervisor, Absaroka National Forest; T. Sheridan King, Assistant Forest Ranger, Beaverhead National Forest; Thomas E. Herrington, Deputy Forest Ranger; Coeur d'Alene National Forest; Ivan R. Myers, Assistant Forest Ranger, Flathead National Forest; Samuel A. Kittams, Assistant Forest Ranger, and Thomas G. Myers, Deputy Forest Ranger, Jefferson National Forest.

District 2—Operation: Wilmer C. Bennett, Expert, Arapaho National Forest; Walter J. Morrill, Deputy Forest Supervisor, Rio Grande National Forest.

Silviculture: John E. Elliott, Lumberman, Routt National Forest; Peter Keplinger, Forest Assistant, San Juan (E) National Forest.

District 3—Operation: William H. Pierce, Assistant Forest Ranger, Coconino National Forest.

District 4—Operation: Julian E. Rothery, Deputy Forest Supervisor, Cache National Forest; Assistant Forest Rangers—Francis M. Cox, jr., Manti National Forest; Melvin R. McCoy, Sawtooth National Forest; Edwin T. Alvord, Targhee National Forest.

District 6—Operation: Samuel S. Swenning, Deputy Forest Supervisor; Dennis Matthews, Assistant Forest Ranger; Wilson McBride, Forest Guard.

Silviculture: William T. Andrews, Lumberman; Frank B. Kellogg, Forest Assistant.

Grazing: Thos. P. MacKenzie, Assistant District Forester.

CHANGES IN DESIGNATION

Law—In accordance with General Order No. 140 (see Service Notes) the following organization of the Forest Service Branch of the Office of the Solicitor is effective:

R. W. Williams, jr., Assistant to the Solicitor, In Charge; Thomas G. Shearman, Assistant to the Solicitor; Patrick D. Cronin, Assistant to the Solicitor; E. B. Quiggle, Assistant to the Solicitor.

District 1—W. M. Aiken, Assistant to the Solicitor and Law Officer; Harold H. Clarke, Assistant to the Solicitor and Assistant Law Officer.

District 2—Geo. E. Trowbridge, Assistant to the Solicitor and Law Officer; J. F. Lawson, Assistant to the Solicitor and Assistant Law Officer.

District 3—Blake Franklin, Assistant to the Solicitor and Law Officer; R. F. Feagans, Assistant to the Solicitor and Assistant Law Officer.

District 4—W. C. Henderson, Assistant to the Solicitor and Law Officer; A. W. Jensen, Assistant to the Solicitor and Assistant Law Officer.

District 5—H. P. Dechant, Assistant to the Solicitor and Law Officer.

District 6—W. F. Staley, Assistant to the Solicitor and Law Officer; D. F. McGowan, Assistant to the Solicitor and Assistant Law Officer.

District 1—Operation: Earl B. Tanner from Forest Ranger to Scaler, Bitterroot National Forest; Murray E. Skillman from Forest Guard to Assistant Forest Ranger, Cabinet National Forest; Elmer A. Findell and Joe M. Taylor from Forest Guards to Assistant Forest Rangers, Missoula National Forest; Elmer D. Fletcher from Forest Expert to Deputy Forest Supervisor, Madison National Forest; Arthur C. Haines, Alexander T. Macnab, David F. McGill, and Ralph E. Sheriff from Forest Guards to Assistant Forest Rangers, Sioux National Forest.

Silviculture: D. T. Mason, Assistant District Forester to Forest Supervisor, Deerlodge National Forest; Karl W. Woodward, Forest Examiner to Deputy Forest Supervisor, Missoula National Forest.

District 2—Operation: Henry L. Spencer from Forest Supervisor to Forest Ranger, Uncompahgre National Forest.

District 3—Operation: Harry C. Viles from Deputy Forest Supervisor to Forest Ranger, Pecos National Forest.

District 4—Operation: Richard P. Imes, Assistant District Forester to Forest Supervisor, Black Hills (South) National Forest; John Riis, from Forest Supervisor, La Sal National Forest, to Forest Ranger, Targhee National Forest; William M. McGhie, Deputy Forest Supervisor, Wasatch National Forest, to Forest Ranger, Humboldt National Forest.

District 5—Accounts: Clarence Wiley, from Chief, Office of Accounts, to Clerk, District Office.

TRANSFERRED

District 1—Law: Harold H. Clarke from Washington Office.

Operation: C. C. Hall from Deerlodge National Forest to District 3; Harold L. Redlingshafer from Blackfeet National Forest to Accounts.

Silviculture: O. M. Butler, Assistant District Forester from District 4; J. L. Cobbs, Forest Assistant, from reconnaissance Deerlodge National Forest to Flathead National Forest; H. Edwards and Frank Thompkins, Forest Assistants, from reconnaissance Deerlodge National Forest to reconnaissance Helena National Forest; W. B. Willey, Forest Assistant, from Coeur d'Alene National Forest to Clearwater National Forest; Elmer R. Brunke, Deputy Forest Supervisor, from Absaroka National Forest to Kaniksu National Forest.

District 4—Operation: Richard P. Imes, Assistant District Forester to Forest Supervisor, Black Hills (South) National Forest; Henry A. Bergh, Forest Supervisor, from Idaho National Forest to La Sal National Forest; James E. Jewell, Forest Supervisor, from Dixie National Forest to Wyoming National Forest; John Raphael, Forest Supervisor, from Wyoming National Forest to Dixie National Forest; Julian Rothery, Deputy Forest Supervisor, Cache National Forest, to Idaho National Forest; Thomas J. Collins, Assistant Forest Ranger, from District 5 to Moapa National Forest; Peter A. Dixon, Assistant Forest Ranger, from Boise National Forest to District 6.

District Office: Eugenia G. Wilson, Clerk, Stenographer, and Typewriter, to District 2; Martin J. O'Toole, Tariff Clerk, to Division of Accounts and Disbursements, Washington, D. C.; (Property Audit) Pearle P. Cramer, Clerk (Typewriter) to Bureau of Plant Industry, Washington, D. C.

District 5—Operation: R. F. Hammatt, Assistant District Forester, to Forest Supervisor, Shasta National Forest; W. B. Rider, Forest Supervisor, Shasta National Forest, to Forest Supervisor, Klamath National Forest; R. L. Fromme, Forest Supervisor, Klamath National Forest, to Forest Supervisor, Siskiyou National Forest, District 6.

District 6—Operation: C. DeF. Bartrum, Assistant Forest Ranger, Umpqua National Forest, to Cascade National Forest; Elbert H. Darling, Superintendent of Telephone Construction, Olympic National Forest, to Oregon National Forest; William H. Gibbons, Assistant Forest Ranger, Snoqualmie National Forest, to Olympic National Forest; Peter A. Dixon, Assistant Forest Ranger, from District 4 to District 6, Umatilla National Forest.

Silviculture: Frank B. Kellogg, Forest Assistant, Rainier National Forest, to Silviculture.

REINSTATED

District 5—Operation: Albert R. Wilder, Assistant Forest Ranger, Klamath National Forest; William M. Brown, Assistant Forest Ranger, Sierra National Forest.

Silviculture: Louis Margolin, Forest Examiner, District Office.

District 6—Operation: Earl Abbott, Assistant Forest Ranger.

PROMOTED

District 3—Operation: John W. Dorman, Deputy Forest Ranger to Assistant Forest Ranger, Coconino National Forest.

District 5—Accounts: Frank C. Thompson, Clerk (District Office) to District Fiscal Agent, District Office.

District 6—Operation: Clement C. Reid, Deputy Forest Supervisor to Forest Supervisor.

LEAVE WITHOUT PAY

Publication—Findley Burns, Chief.

District 3—Lands: Florence E. Derbyshire, Clerk, District Office.

District 5—Operation: William M. Brown, Assistant Forest Ranger, Sierra National Forest; Ernest Britten, Forest Supervisor, California National Forest; Daisy E. Walker, Map Colorist, District Office; Elmer F. Montgomery, Clerk, California National Forest; Bertha M. Brown, Clerk (Stenographer and Typewriter), District Office; Arthur L. Dahl, Clerk, District Office.

District 6—Operation: Ralph Taylor, Assistant Forest Ranger; Clarence R. Davis, Assistant Forest Ranger.

Silviculture: Nellie M. Shears, Clerk (Stenographer and Typewriter).

FURLOUGHED

District 1—Operation: Elmer D. Fletcher, Deputy Forest Supervisor, Madison National Forest.

District 2—District Forester's Office: Ethel M. White, Clerk.

Operation: Chas. E. McMullin, Forest Ranger, Uncompahgre National Forest; Stella W. Munce, Draftsman, District Office; Pearl H. Stewart, Clerk, Uncompahgre National Forest.

Products: Alfred D. Wolff, jr., Engineer in Timber Tests.

District 3—Operation: Elizabeth Roberts, Forest Clerk, Tonto National Forest; Cecil R. C. Reindorp, Forest Ranger, Gila National Forest; Lula T. Wools, Forest Clerk, Tonto National Forest.

District 5—Operation: Dario Martinez, Assistant Forest Ranger, Santa Barbara National Forest.

District 6—Operation: Ralph Taylor, Assistant Forest Ranger; Josephine A. Anderson, Clerk (Typewriter).

Silviculture: Frank G. Miller, Forest Assistant.

RESIGNED

District 1—Operation: Frederick H. Chadney, Assistant Forest Ranger, and Joseph C. Eastland, Forest Ranger, Blackfeet National Forest; Burton F. Cressler, Assistant Forest Ranger, Clearwater National Forest; Clyde P. Fickes, Assistant Forest Ranger, Flathead National Forest; C. H. Clay, Assistant Forest Ranger, Kootenai National Forest; Richard P. Dean, Deputy Forest Ranger, Lewis & Clark National Forest.

Silviculture: G. B. McDonald, Forest Assistant, Helena National Forest; C. Jones, Forest Assistant, Kaniksu National Forest.

District 2—Operation: Asa G. Arnold, Assistant Forest Ranger, San Isabel National Forest; William W. Borom, Assistant Forest Ranger, Battlement National Forest; Peter G. Peterson, Assistant Forest Ranger, Bonneville (SW.) National Forest; Andrew L. Stroup, Forest Supervisor, Rio Grande National Forest; Mabel E. Bartow, Clerk, San Isabel National Forest.

Accounts: Grace M. Curtin, Clerk.

District 3—Operation: Margaret McFadden, Forest Clerk, Prescott National Forest; Douglas Rodman, Forest Supervisor, Gila National Forest.

District 4—Operation: Charles F. Patterson, Deputy Forest Supervisor, Nevada National Forest; Harry E. Matthews, Forest Ranger, Moapa National Forest; Samuel R. Pratt, Deputy Forest Ranger, Kaibab National Forest; Thomas B. Hunt and Charles West, Assistant Forest Rangers, Boise National Forest; Lawrence J. Adams, Assistant Forest Ranger, La Sal National Forest; Joseph N. Christiansen, Assistant Forest Ranger, Manti National Forest; Roland W. Brown, Assistant Forest Ranger, Palisade National Forest; Francis Moss, Assistant Forest Ranger, Palisade National Forest; Elmer E. Ballard, Assistant Forest Ranger, Sawtooth National Forest; John N. MacGuire, Forest Guard, Nevada National Forest; Seymour R. Dorius, Forest Clerk, Sevier National Forest.

Silviculture: William Winter, Forest Assistant, Powell National Forest.

District Office (Supply Depot): Robert Ray Whittleton, Clerk.

District 5.—Operation: Henry M. Davey, Forest Guard, Sierra National Forest; Charles P. Hardy, Deputy Forest Supervisor, Sierra National Forest; Frank X. Hendricks, Forest Guard, Inyo National Forest; William Ira Fine, Forest Guard, Angeles National Forest; Clarence A. King, Deputy Forest Ranger, Cleveland National Forest; Frank J. Brown, Forest Guard, Plumas National Forest; John E. Alverson, Deputy Forest Ranger, Monterey National Forest; Elizabeth M. Proutzman, Clerk (Stenographer and Typewriter), District Office; Julius W. Hurlbut, Assistant Forest Ranger, Lassen National Forest; William C. F. Nespital, Construction Engineer, District Office.

Silviculture: Nels O. Torstenson, Planting Assistant, Shasta National Forest.

District 6.—Operation: Ranger H. Leese, Delbrit W. Myers, Carl E. Ward, Marion C. Burlingame, Robert A. Dean, Orrison L. Hillis, and Carrall L. Pearson, Assistant Forest Rangers; W. F. Grob, William R. Gardiner, Stanley F. Matthews, Forest Guards; John W. Lynch and Perry Young, Forest Guards (Hunters); Milton J. Anderson, Forest Supervisor; Esma A. Newell, Forest Clerk; Josephine R. Anderson, Clerk (Stenographer and Typewriter).

SEPARATED

District 1.—Operation: Cyrus L. Bryant, Assistant Forest Ranger, Absaroka National Forest; Albert Reynolds, Forest Ranger, Blackfeet National Forest; Ben E. Bush, Theodore Fohl, Henry B. Pettibone, and W. C. Peterson, Forest Guards, Clearwater National Forest; Leon A. Gillette, Forest Guard, Helena National Forest; Thomas E. Kinney, Forest Guard (Scaler), Kaniksu National Forest; J. G. Gospill, Forest Guard, Kootenai National Forest; Louis J. Kennedy, Assistant Forest Ranger, Madison National Forest; Francis A. Cummings, Forest Guard, Minnesota National Forest; Edward Kent, Forest Guard (Hunter), Missoula National Forest; David Lewis, Forest Guard, Nezperce National Forest; Daniel R. Litehiser, Assistant Forest Ranger, Pend Oreille National Forest; William B. Clarkson, Forest Guard, Sioux National Forest; A. A. Cummings, Forest Guard, Superior National Forest.

District 5—Operation: C. E. Shillingford, Assistant Forest Ranger, Mono National Forest.

APPOINTMENT TERMINATED

District 2—Operation: Henry R. Harrison, Surveyor, Battlement National Forest; Edna C. Hocking, Forest Clerk, Montezuma National Forest; M. B. Pidcock, Forest Guard, White River National Forest; Frank A. Myers, Forest Guard, Medicine Bow National Forest.

District 3—Operation: Justus W. Bush, Forest Guard, Apache National Forest; D. Livingstone Read, Forest Guard, Apache National Forest; Herbert Hodge, Assistant Forest Ranger, Wichita National Forest; John B. McIntyre, Forest Guard (Hunter), Gila National Forest; Charles Cõe, Forest Guard, Lincoln National Forest; Jesse Johnstun, Forest Guard, Zuni National Forest; Jackson A. Fairfax, Forest Guard, Coconino National Forest; Joseph E. Durfee, Forest Guard, Prescott National Forest; Anton N. Vittrup, Forest Guard, Gila National Forest; William S. Dougherty, Forest Guard, Pecos National Forest; A. J. Linville, Forest Guard, Prescott National Forest.

District 4—Operation: James H. McClung, Forest Guard (Hunter), Salmon National Forest; Albert W. Norton, jr., Forest Guard (Hunter), Sevier National Forest; Marshall Parks Page, Forest Guard, and Benjamin F. Welch, Forest Guard (Hunter), Wyoming National Forest.

District 5—Operation: John H. Rice, Forest Guard, Stanislaus National Forest; Rita A. Castle, Forest Clerk, Trinity National Forest; Earl Slinkard, Forest Guard, Sequoia National Forest; David E. Godfrey, Forest Guard, Cleveland National Forest; Arthur B. Allen, Forest Guard, Sequoia National Forest; Richard N. Hart, Forest Guard, Sequoia National Forest; George Silvey, Forest Guard, Sequoia National Forest; Joseph H. Monny, Forest Guard, Sequoia National Forest; Francis D. Hart, Forest Guard, Sequoia National Forest; Arthur J. Dyas, Forest Guard, Sequoia National Forest; Edna C. Wilkins, Clerk, Lassen National Forest; Thomas C. Patterson, Assistant Forest Ranger, Tahoe National Forest.

Lands: L. Grant Duncan, Expert Miner, Cleveland National Forest.

REVOCATION OF APPOINTMENT.

District 1—Operation: Walter J. Hyde, Forest Guard, Beartooth National Forest; Frederick F. Clark, Blackfeet National Forest; Charles Raney, Forest Guard, Coeur d'Alene National Forest; Walter D. Hofer, and P. F. Pierce, Forest Guards, Madison National Forest; John Kokta, Forest Guard, Willard N. Michael, Forest Guard, and William John Fahney, Forest Guard, Nez Perce National Forest; Lewis J. White, Forest Guard, Superior National Forest.

District 2—Operation: Robert O. Throckmorton, Assistant Forest Ranger, Arapaho National Forest; Herman A. Armstrong, Forest Guard, San Juan (W) National Forest; Clifton Lister, Forest Guard, Hayden National Forest; Enoch Beech, Forest Guard, White River National Forest; Raymond P. Gregg, Assistant Forest Ranger, Leadville National Forest; L. S. Parke, Field Assistant, Arapaho National Forest.

District 3—Operation: George W. Murnane, Clerk (Stenographer and Typewriter), Carson National Forest.

District 5—Operation: William S. Wallace, Forest Guard, California National Forest; Van B. Sleeper, Forest Guard, California National Forest; John B. Rupley, Forest Guard, Tahoe National Forest; William C. Duncan, Forest Guard, Trinity National Forest.

DISMISSED

District 1—Operation: Theodore Christensen, Deputy Forest Ranger, Blackfeet National Forest.

The death of Mr. Louis Christian Miller, Chief of the Section of Planting in District 2, which occurred at Denver, Colo., on July 16, following an operation for appendicitis, is announced with profound regret. Mr. Miller entered the Division of Forestry as a Student Assistant June 16, 1900, and became a Field Assistant November 1, 1903. Practically his whole service was spent in lines of work directly connected with forest extension, and at the time of his death he was a recognized expert in planting work. He was a member of the Society of American Foresters. He was highly esteemed as a man of character and ability, and his death is deeply mourned by his associates in the Forest Service.

With deep regret announcement is made of the death of Alexander A. Cummings, Forest Guard, on the Superior National Forest, who was drowned in Knife Lake, May 8; of Sidney E. Moylle, Assistant Forest Ranger, on the White River National Forest, at Meeker, Colo., June 15; of Henry C. Hinst, Deputy Forest Ranger, on the Sawtooth National Forest, at Hailey, Idaho, May 17; and of Frank P. Hill, Assistant Forest Ranger, on the Umpqua National Forest, at Roseburg, Oreg.

SERVICE NOTES FOR JULY

These notes contain instructions and necessary information for Forest officers, and will therefore be carefully read and kept on file for reference.

OFFICE OF THE FORESTER.

PUBLICATION.

In future the Field Program will be published quarterly instead of monthly and on the fifteenth of the first month in each quarter. Each issue will be complete.

LAW.

UNITED STATES DEPARTMENT OF AGRICULTURE,
OFFICE OF THE SECRETARY,
Washington, D. C., June 9, 1910

GENERAL ORDER No. 140.

DUTIES OF THE SOLICITOR.

The Act of Congress approved May 26, 1910, contains the following provision:

"Hereafter the legal work of the Department of Agriculture shall be performed under the supervision and direction of the Solicitor."

To carry into effect this provision of law it is hereby ordered that the legal work of the various bureaus, offices, and divisions of this Department shall hereafter be conducted as follows:

* * * * *

4. *Forest Service.*—The legal work of the Forest Service shall be conducted in accordance with General Order No. 138, dated January 15, 1910, subject to the following change: On and after July 1, 1910, the positions of Law Officer, First Assistant Law Officer, and Assistant Law Officer, in Washington, will be discontinued, and the law work of the Forest Service in Washington will be performed under the immediate direction of the Solicitor.

GRAZING TRESPASS SETTLEMENT—Payment of $378 has been received from U. F. Diteman in settlement of grazing trespass (civil) by Diteman and Rennie on the Rainier National Forest. The trespassers were arraigned in the United States Court at North Yakima on May 17 on the indictment for criminal trespass and a demurrer was filed by their attorney. The court announced that he would enter an order sustaining the demurrer as soon as he could prepare his opinion.

ACCOUNTS

FORMS 861 AND 861-G REVISED—Letters of transmittal, Forms 861 and 861-G, have been revised, the revised forms having a perforated coupon to be detached by the District Fiscal Agent and retained as a permanent record in his office. With the

exception of this perforation the form is practically unchanged, and its use, so far as Forest officers are concerned, will remain the same. The revised forms will be distributed as soon as received and should then be used exclusively by all Forest officers for transmitting collections on accounts of Forest resources. All old Forms 861 and 861–G on hand should be destroyed when the new edition is received.

Revision of Pay-roll Forms—The Field pay roll, Form 2, has been revised and will now be used by Forest supervisors in certifying monthly salaries of the Forest force instead of Certificate of Service, Form 143. An initial supply will be furnished by the Property Clerk at Ogden without requisition. When that is received, the use of Form 143 should be discontinued. If a supply is not received within a reasonable time after July 1, the Property Clerk should be notified. In preparing the pay rolls three copies should be made—the original and one carbon forwarded to the District Fiscal Agent and the second carbon retained in the Forest file. The original pay roll only should be certified, but the carbons should show the name of the certifying officer.

Transportation Requests—Alterations or erasures on a transportation request should be made only by a person who has authority to issue the request. Allowance for extra services rendered in accordance with an unauthorized alteration of a request can not be made unless such services are specifically ratified and approved by proper authority. Additional accommodations required by an employee over those originally provided for him should be paid for by himself and reimbursement requested therefor, which can only be made after the same are furnished and are ratified and approved as necessary and required for the Government's interest. Decision by Comptroller, July 22, 1909.

OPERATION

Changes in National Forest Boundaries and Areas—Since the June issue of the Field Program the President has signed proclamations changing the areas and boundaries of certain National Forests as follows:

On May 27, San Isabel and Las Animas (District 2) eliminating 99,965 acres and consolidating both forests under the name of San Isabel; Wallowa (District 6), eliminating 203,635 acres and transferring 604 acres to Wenaha; Wenaha (District 6), transferring 604 acres from the Wallowa. June 7, Datil (District 3), eliminating 95,178 acres and adding 183,091 acres. June 8, Executive Order combining San Luis and Santa Barbara National Forests (District 5) under the name of Santa Barbara. June 9, proclamations eliminating 5,640 acres from the Cochetopa and 11,195 acres from the Gunnison (District 2). June 10, eliminating 45,489 acres from the Uncompahgre (District 2).

Other proclamations effective July 1 made the following changes: In District 1, 16,012 acres were eliminated from the Deerlodge (Montana) and 33,358 acres were transferred to the Beaverhead; 106,875 acres were eliminated from the Beaverhead (Idaho and Montana), 15,680 acres were transferred to the Targhee, 140,160 acres transferred to the Lemhi, and an addition of 33,358 acres made by transfer from the Deerlodge. In District 2, the Medicine Bow Forest became the Colorado, and

the name of the Cheyenne (Wyoming) was changed to Medicine Bow and 39,865 acres were eliminated. In District 3, the changes in the Chiricahua (Arizona and New Mexico) were: Additions, 30,560 acres; additions by transfer from the Coronado, 51,840 acres, and eliminations, 57,297 acres; in the Coconino (Arizona) additions, 28,775 acres, and eliminations, 283,344 acres. The Tusayan (Arizona), a new Forest, consists of 1,830,487 acres, of which 1,756,131 acres were formerly a part of the Coconino and 74,356 acres reserved by this proclamation. The changes in the Coronado were: Additions, 15,120 acres, and eliminations, 383,809 acres. The changes in the Manzano (New Mexico) were: Additions, 268,770 acres; transfer to the Zuni, 215,601 acres, and eliminations, 84,158 acres. The changes in the Zuni were: Additions, 126,001 acres, and eliminations, 5,219 acres. In District 4, 60,070 acres were eliminated from the Targhee (Idaho and Wyoming). A new Forest, the Palisade, was created by taking 583,650 acres from the former Targhee (Idaho and Wyoming). 15,122 acres were eliminated from the Nebo (Utah), and 54,240 acres transferred to the Wasatch. The Wasatch received an addition of 8,713 acres, and 1,440 acres were eliminated. In District 5, a new Forest called the Kern was created from 1,938,528 acres formerly a part of the Sequoia, together with 12,663 acres of newly reserved land. The Sequoia received an addition of 9,389 acres, and 175,730 acres by transfer from the Sierra, and lost 65,490 acres by elimination. In District 6, an addition of approximately 239,360 acres to the Chelan was made by transfer from the Wenatchee.

Requisitions for Form 979.—The supply of Form 979, Conventional Township Sketching Sheet, which hitherto had been furnished by the Property Clerk to District Headquarters only and distributed from there as needed on the National Forests, will hereafter be issued directly from the Supply Depot at Ogden to the supervisors' headquarters. Chiefs of Maintenance should, therefore, requisition only the number of copies needed at the district offices, and supervisors should requisition directly on the Supply Depot the number of copies necessary for their work.

SILVICULTURE

Correct Preparation of Papers.—If the present plan of having supervisors prepare important papers in reference to timber sales, sawmills, etc., is to be successful, Forest officers must be careful to see that the blank space on the forms used are filled out properly and that the paper is in every respect correctly drafted before it is submitted for execution. Mistakes in respect to material language and terms can not be corrected after the execution of the papers, without destroying the validity of the contract or bond, as the case may be.

Duplicates of Letters on Insect Infestation.—Letters dealing with diseases or insect infestation should be forwarded to the Forester in duplicate, in order that the copies may be transmitted either to the office of Forest Pathology or to the office of Insect Investigations, without additional copying in the Washington office. Much unnecessary typewriting will be avoided if this is done in all cases.

Reconnaissance Forms.—The present reconnaissance Forms 321, 322, and 323, have been revised as follows: Form 321 (book) has been discontinued and is superseded in part by Forms 321a ("Forty Estimate Sheet"), and 322, revised ("Recon-

naissance Section Plat"), both of which are loose sheets and are prepared for use in small valuation tally holders. Form 321a is for detailed tally by forties, together with descriptive notation. Form 322, instead of being an office form exclusively, has been rearranged so that by folding the form it is reduced to the same size as Form 321a and can be used in the same holder, thus making it available in part as a field form for mapping purposes. Form 323 remains the same in general arrangement, except that the scale has been changed to two inches to the mile, thus making it conform to the atlas scale.

GRAZING

Identification of Grasses and Forage Plants—The Forester will be glad to have all Forest officers avail themselves fully of the services of the plant expert in the Washington office in identifying and classifying the various grasses and other forage plants found on the National Forests. It is evident, however, from the condition in which many of the specimens now reach the expert, that Forest officers are not taking sufficient pains in gathering and forwarding them. If the instructions contained in the circular of April 5, 1909, "Suggestions for the Collection of Range Plant Specimens," are carefully followed, so far as relates to the selection and handling of such specimens, much delay and disappointment will be saved.

LANDS

Procedure in the Conduct of Claims Cases—The following agreement, to govern hearings and appeals in cases involving lands or claims within National Forests, was signed on June 25, 1910, by the Secretary of the Interior and by the Secretary of Agriculture:

To the Commissioner, Registers and Receivers, and Chiefs of Field Division, General Land Office, Department of the Interior; the Forester, District Foresters, and District Law Officers of the Department of Agriculture.

Gentlemen: To better effectuate cooperation in protecting the interest of the Government and settlers and other claimants for lands within National Forests, the following orders are effective:

1. Forest Supervisors will submit all reports made by forest officers to the District Forester, who, when satisfied with said reports, will transmit the same to the Secretary of Agriculture; the Secretary of Agriculture will forward such reports to the Secretary of the Interior. The Commissioner of the General Land Office will return said reports to the proper Chief of Field Division for notation upon his records and for his approval in the event he finds the same sufficient; and should the Chief of Field Division find such report insufficient to warrant proceedings to hearing or the taking of other appropriate action, he will return the same with indorsements, asking that the Department of Agriculture make such additional investigation as may be necessary, or in the event he deems it advisable he will cause an agent of the General Land Office to make such additional investigation.

2. Upon order or applications for hearings upon reports covering lands or claims within a National Forest, the Register and Receiver will send duplicate notices thereof to the Chief of Field Division and the District Law Officer. Before setting date for the hearing in any such case, the Chief of Field Division will confer with the proper District Law Officer and thereupon suggest to the Register and Receiver a date for hearing, and the names of witnesses to be subpœnaed upon behalf of the Government. In the event the Chief of Field Division and the District Law Officer

are unable to agree as to the date of hearing, the matter will be referred by the Chief of Field Division to the Commissioner of the General Land Office, who will give the necessary direction in the premises.

3. In all hearings affecting lands or claims within a National Forest, the Chief of Field Division or a special agent of the General Land Office, *and* the District Law Officer, or Assistant District Law Officer, will be entered of record as appearing on behalf of the Government. The Chief of Field Division or special agent acting as attorney for the Government in any such case will control the Government's side of the case in any matter as to which counsel are unable to agree, subject to any direction that may be given by the Commissioner of the General Land Office, in case the matters of difference are of such importance as to be presented to him for action.

4. In all Government cases before registers and receivers involving lands or claims within a National Forest the Chief of Field Division and the District Law Officer shall each be served with notice of all motions, orders, and decisions required to be noticed under the rules in cases of private contests. The proper law officers of the Department of Agriculture shall also have a right of appeal from any decision by the Commissioner of the General Land Office, and to file motion for review in the Department, or take other like action in the same manner as a private contestant, and shall receive like notices of proceedings and decisions.

5. Costs incident to hearings before registers and receivers in Government cases involving lands or claims within a National Forest will be paid under rules now in force. Expenses incident to appeals will be paid by the Department of Agriculture, except that, where feasible, Chiefs of Field Division may give aid in office work in preparation of papers, briefs, etc.

Very respectfully,

(Signed) R. A. BALLINGER,
Secretary of the Interior.
(Signed) JAMES WILSON,
Secretary of Agriculture.

On June 28 the following instructions for procedure in contested claims cases on National Forests, signed by the Forester and by the Solicitor, were approved by the Secretary of Agriculture:

To the District Foresters and District Law Officers:

1. It is not the purpose or intent of the Department to initiate contests against claimants who have entered lands in the National Forests in good faith to secure a home, or for other purposes recognized by law, and in such cases no contest should be initiated upon slight, technical non-compliance with the law. It is the purpose and intent, however, to protect the lands of the United States within the National Forests from acquisition by those who do not seek them for purposes recognized by law, and when it is apparent that an entry is not made or a claim initiated in good faith and in compliance with the spirit of the law under which the entry or claim is made, but is believed to be a subterfuge to acquire title to timber land, or to control water, a water-power site, or rights of way; or if it otherwise actively and materially interferes with the essential interests of the National Forest in that locality, a contest should be begun even if the technical requirements of the law appear to have been fulfilled. As to mining claims, it should especially be borne in mind that good faith almost necessarily exists when the claims are located on untimbered and unwatered lands which control no means of access or rights of way.

It is necessary that the officers of the Forest Service who make an examination of claims to lands in the National Forests carefully consider all the circumstances surrounding the claim to the end that the good faith of the claimant may be determined.

An adverse report on a claim should be so full and complete that the evidence when submitted to the Interior Department would prima facie warrant a cancellation of the entry.

2. When a thorough investigation of a claim has been made and the Supervisor decides that a contest should be initiated he will make a full report to the District Forester. If the District Forester approves the recommendation of the Supervisor he will refer the report to the District Law Office for consideration of the sufficiency of the evidence. If the District Law Officer is of the opinion that other and additiona evidence is required, he will so advise the District Forester, who will take the necessary action to secure it. When the report is completed the District Forester will transmit it to the Forester, who will make his recommendation thereon and transmit all the papers to the Solicitor, who will make an examination of the case for the purpose of ascertaining the sufficiency of the law and evidence to sustain the contest and for the purpose of recommending to the Secretary the action to be taken thereon.

3. The reports of the Forest officers should be as full and complete as the facts of the case will permit and should include especially:

(*a*) A particular description of the land, its location, character, amount of timber, description of improvements; and if an agricultural claim, its accessibility as a home, extent and nature of cultivation each year, and periods of residence; if a mining claim, the nature and extent of work done, and, when the examination has been made by an expert miner, the nature and extent of mineral deposits.

(*b*) A digest of the testimony of witnesses and, where possible, the testimony of witnesses reduced to writing, signed, and verified by them.

(*c*) A full statement of the Forest officer showing facts in his knowledge and the sources from which derived. Facts, not opinion, are desired.

(*d*) A full statement of entryman or claimant should be procured if possible.

The foregoing specifications of evidence to be submitted are not exclusive of any other evidence pertinent and relevant to the case, the intent being that the report should be fair and sufficient in detail to enable the department to determine whether a contest should be initiated.

4. Upon the determination of the Secretary as to the action required he will advise the Secretary of the Interior, and if a contest is necessary, he will indicate the charges upon which a hearing is requested and will transmit the report of the Forest officer to him with the request that action be taken.

5. When the District Law Officer is notified by the Register and Receiver of an order or application for a hearing the Law Office will confer with the Chief of Field Division of the General Land Office for the purpose of fixing a date for hearing. The District Law Officer or his assistant will attend the hearing and assist the special agent of the General Land Office in the conduct of the hearing as directed by the joint order of the Secretary of Agriculture and the Secretary of the Interior of June 25. The District Law Officer will secure a copy of the testimony in each case at the expense of the Forest Service, will prepare a brief for the Department, which will be filed with the papers in the local Land Office and transmitted by the Register and Receiver to the Commissioner of the General Land Office, and a copy of the brief must be duly served on the claimant or his attorney by the Law Officer. The District Law Officer will send his copy of the testimony and a copy of the brief prepared by him to the

Solicitor of the Department of Agriculture for use in the event additional action is desired by the Solicitor before the Commissioner of the General Land Office and for use in the preparation of appeals, if any, from the decision of the Commissioner of the General Land Office.

(Signed) H. S. GRAVES,
Forester.

(Signed) GEO. P. MCCABE,
Solicitor.

Approved:
JAMES WILSON,
Secretary.

SETTLERS ON RESTORED AREAS—The Secretary of the Interior decided, June 8, 1910, that persons who are occupying lands under special-use permits within that portion of the Montezuma National Forest recommended for elimination by proclamation and who continue to reside thereon to the time the lands are restored to settlement and entry, will be entitled to a preference right of entry by virtue of their settlement and residence. The lands involved have not yet been eliminated from the Forest, owing to the necessity of a resurvey of a private land claim embracing a portion of the lands involved. When they are restored they will be declared open to settlement upon a given date, and to entry, filing, and settlement at a date thirty days thereafter, thus affording the prospective homesteader and actual settler the advantage over others who may apply. Respecting the rights of persons who have merely applied for the listing of lands under the act of June 11, 1906, within that area to be eliminated, and who have not actually settled upon the land, the Interior Department declines to express an opinion as to any rights which they may have until an actual concrete case is presented for consideration.

EXAMINATIONS OF FOREST HOMESTEAD APPLICATIONS—Owing to the prime importance of this work, to the danger of inconsistent action, and to the difficulty of conveying by report a clear idea of the listability of lands in doubtful cases, it is advisable that only the more experienced and efficient Forest officers be assigned to the work. Supervisors are expected to give as much personal attention to this work as possible, so that reexaminations will not be necessary, because reports fail to represent the true conditions.

SERVICE PUBLICATIONS ISSUED IN JUNE AND JULY

Bulletin 79—The Life History of Lodgepole Burn Forests.
Bulletin 81—The Forests of Alaska.
Bulletin 82—Protection of Forests from Fire.
Circular 178—The Pasturage System for Handling Range Sheep.
Circular 180—Lumber Saved by Using Odd Lengths.

O

Issued January 16, 1911.

UNITED STATES DEPARTMENT OF AGRICULTURE
FOREST SERVICE

HENRY S. GRAVES, Forester
Walter Mulford

January Field Program, 1911

This program of field work and assignments in the Forest Service is issued quarterly on the fifteenth day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed and reference to projects for which plans have not been matured are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

OFFICE OF THE FORESTER

HENRY S. GRAVES, Forester.
ALBERT F. POTTER, Associate Forester.

HERBERT A. SMITH, Editor; GEORGE B. SUDWORTH, Dendrologist; EUGENE S. BRUCE, Expert Lumberman; D. D. BRONSON, General Inspector.

ACCOUNTS

Division of Accounts and Disbursements (Forest Service Branch).

M. E. FAGAN, Chief of Office of Accounts; E. A. MELZAR Assistant Chief.

OPERATION

JAMES B. ADAMS, Assistant Forester, in charge; CLYDE LEAVITT, Assistant Forester; GEORGE G. ANDERSON, Assistant in Office Methods.

GEOGRAPHY—FRED G. PLUMMER, Chief.

ATLAS—G. B. BRUCE.

DRAFTING—C. A. KOLB.

PHOTOGRAPHY—A. G. VARELA.

MAINTENANCE—GEORGE A. BENTLEY, Chief.

SILVICULTURE

WILLIAM T. COX, Assistant Forester, in charge; A. K. CHITTENDEN, Acting Assistant Forester.

STATE AND PRIVATE COOPERATION—J. G. PETERS, Chief; J. H. FOSTER, Assistant Chief.

CONNECTICUT—Preparation of report on second-growth hardwood stands, in cooperation with the State Forester—E. H. Frothingham.

NORTH CAROLINA—Preparation of report on forest conditions in cooperation with North Carolina Geological and Economic Survey—J. S. Holmes, Chapel Hill.

TENNESSEE—Preparation of report on forest conditions in cooperation with State Geological Survey—R. C. Hall, Washington, D. C.

Study of second-growth hardwoods in eastern Tennessee, in cooperation with State Geological Survey—W. W. Ashe and E. D. Clark, Johnson City.

NORTHEASTERN STATES—Preparation of report on red spruce in second-growth stands—L. S. Murphy, Washington, D. C.

Preparation of report on forest conditions on watersheds of Allegheny and Monongahela Rivers in cooperation with Pittsburg Flood Commission—J. H. Foster, O. D. Ingall, and G. I. Withington, Washington, D. C.

SOUTHERN STATES—Study of Appalachian species, with special reference to yield of second-growth stands—W. W. Ashe, Johnson City, Tenn.

Preparation of report on cottonwood in second-growth stands in the Mississippi Valley—A. W. Williamson, Washington, D. C.

SILVICS—RAPHAEL ZON, Chief; S. T. DANA, Assistant Chief.

Preparation of report on eucalyptus planting experiments in Florida—Raphael Zon.

Preparation of report on the relation of forests to streamflow—Raphael Zon.

Preparation of report on the aspens—E. H. Frothingham.

General—Basket willow study—G. N. Lamb.

Seed testing and storage experiments—C. R. Tillotson.

MEASUREMENTS—W. B. BARROWS.

Compilation of growth and yield tables—W. B. Barrows.

LIBRARY—Miss H. E. STOCKBRIDGE.

GRAZING

A. F. POTTER, Associate Forester, in charge; L. F. KNEIPP, Assistant Forester; WILL C. BARNES, Inspector of Grazing.

Forage investigations; compilation of data—F. V. Coville, Botanist, Bureau of Plant Industry, in charge, Washington D. C.; investigation of methods of range control and restoration of overgrazed ranges, James T. Jardine, Inspector of Grazing, Washington, D. C.; Arthur T. Sampson and William A. Dayton, Plant Ecologists. Washington, D. C. (detailed to Bureau of Plant Industry under instructions of F. V. Coville, Botanist).

LANDS

JAMES B. ADAMS, Assistant Forester, in charge; O. C. MERRILL, Chief Engineer; F. H. FOWLER, Engineer.

OCCUPANCY—W. W. DYAR, in charge.

CLAIMS—J. I. PARKER, in charge.

PRODUCTS

WM. L. HALL, Assistant Forester, in charge, Madison, Wis.

FOREST PRODUCTS LABORATORY—(In cooperation with the University of Wisconsin, Madison, Wis.) MCGARVEY CLINE, Director; H. S. BRISTOL, Assistant Director; HOWARD F. WEISS, Assistant Director.

ENGINEERING—ROLF THELEN, in charge.

MAINTENANCE—WM. H. KEMPFER, in charge.

CHEMISTRY—E. BATEMAN, in charge.

The classification of commercial creosotes according to their chemical and physical properties—E. Bateman.

Investigations to determine the quantity and quality of tannin in various kinds of woods and bark—F. W. Kressmann.

The investigation of specifications for gum turpentine—A. W. Schorger.

Experiments to determine the penetrance of caustic soda solution into aspen—F. W. Kressmann.

Standardization of commercial ground-wood pulp samples—E. Bateman.

Study of the oleo-resin of western yellow pine—A. W. Schorger.

PULP AND PAPER—H. E. SURFACE, in charge.

Progress report on the various pulp woods tested previous to the establishment of the Forest Products Laboratory at Madison—H. S. Bristol.

Experiments to determine the suitability of jack pine for the production of chemical pulp—H. E. Surface.

Experiments to determine the suitability of tamarack for the production of chemical pulp—H. E. Surface.

Experiments to determine the suitability of jack pine and eastern hemlock for the manufacture of ground-wood pulp—J. H. Thickens and G. H. McNaughton, Wausau, Wis.

Experimental study of the fundamental variable cooking conditions in the soda process—H. E. Surface.

TIMBER PHYSICS—H. D. TIEMANN, in charge.

Physical determination of the specific gravity and specific heat of wood substance—Frederick Dunlap.

The preparation of microscopic slides of the principal commercial woods in the United States—Miss Eloise Gerry.

Relations of the hygroscopic conditions of wood to temperatures and vapor pressures—H. E. McKenzie.

Tests to determine the strength of wood beams under continuously applied loads—H. E. McKenzie.

The analytical study of the artificial methods of drying wood in an experimental cylinder—H. D. Tiemann.

The effect of different methods of drying on the strength of wood (a report to be compiled from past records)—H. D. Tiemann.

Preparation of microscopic slides for standardization of wood-pulp samples—Simon Kirsch.

TIMBER TESTS—J. A. NEWLIN, in charge.

Standard tests on maple, red oak, white oak, and ash—F. J. Hallauer; assistant, T. Lyons.

Analysis of impact tests—J. A. Newlin; assistant, T. R. C. Wilson.

Effect of water solutions of bicarbonate of soda on the strength of shortleaf and longleaf pines—T. R. C. Wilson.

Tests to determine the effect of mechanical operative features of pressure in wood-preserving plants on the strength of wood—A. L. Heim.

WOOD DISTILLATION—L. F. HAWLEY, in charge.

Refining and grading of wood turpentine—L. F. Hawley.

Methods of turpentine analysis—L. F. Hawley; assistant E. Bateman.

Experiments in distillation of resinous wood—L. F. Hawley; assistant, R. C. Palmer.

WOOD PRESERVATION—F. M. BOND, in charge.

Fungicidal properties of coal-tar creosote fractions—C. H. Teesdale.

The efficiency of various fractions of coal-tar creosote in protecting southern yellow pine from marine borers—C. H. Teesdale.

Service tests on red oak and maple crossties in cooperation with the Chicago, Milwaukee & St. Paul Railway Co. to determine the relative efficiency of standard preservatives and processes—F. M. Bond.

The relative resistance of commercial woods to injection with creosote—H. F. Weiss and C. H. Teesdale.

Standard tests on the chemical, physical, fungicidal, and inflammable properties of various wood preservatives—L. Witt.

Standard tests upon the strength of loblolly pine to determine the effect of injecting various wood preservatives into it—L. Witt.

Experiments on mechanical operative features of pressure wood-preserving plants—C. P. Winslow and E. W. Peters.

PATHOLOGY (in cooperation with the Bureau of Plant Industry)—C. J. HUMPHREY, in charge.

Toxicity of preservatives with pure cultures—C. J. Humphrey.

Rate of decay of wood and the efficiency of various wood preservatives (fungus pit tests)—C. J. Humphrey.

Moisture per cents at various points in posts; also the effect of bevelling the tops of posts—M. C. Jensen.

WOOD UTILIZATION—H. S. SACKETT, in charge, Fisher Building, Chicago, Ill.

[The figures in the studies below indicate the number of the project.]

Study of the wood-using industries of Illinois (4)—R. E. Simmons, Fisher Building, Chicago, Ill.

Collection of wholesale lumber prices—Franklin H. Smith, Fisher Building, Chicago, Ill.

Study of woods which may be used as substitutes for the southern junipers in the manufacture of lead pencils (14)—H. S. Sackett, Fisher Building, Chicago, Ill.

Study of the woods which may be used in the manufacture of bobbins and shuttles (16)—H. S. Sackett, Fisher Building, Chicago, Ill.

Study of the methods of hickory manufacture and utilization (21)—C. F. Hatch, Fisher Building, Chicago, Ill.

Study of the suitability of short lengths of cypress for use in the manufacture of tobacco boxes and butter tubs—R. E. Simmons, Fisher Building, Chicago, Ill.

Study of the suitability of incense cedar for use in the manufacture of cigar boxes—Franklin H. Smith, Fisher Building, Chicago, Ill.

Study of the effect of freight rates on the disposition of low-grade lumber—H. S. Sackett, Fisher Building, Chicago, Ill.

Study of the sawmill waste available annually in Wisconsin for pulp and other purposes (23)—C. F. Hatch, Fisher Building, Chicago, Ill.

Preparation of reports upon the uses of the principal commercial woods—Hu Maxwell, Fisher Building, Chicago, Ill.; W. L. Hall, Madison, Wis.

Study of the substitution of other materials for wood in various industries—Hu Maxwell, Fisher Building, Chicago. Ill.

WASHINGTON OFFICE—O. T. SWAN, in charge; A. H. PIERSON, Assistant.

DISTRICT 1

Montana, northeastern Washington, northern Idaho, northwestern South Dakota, northern Michigan, northern Minnesota, and southwestern North Dakota. Office Hammond Block, Missoula, Mont.

W. B. GREELEY, District Forester; F. A. SILCOX, Associate District Forester.

LAW—Office of the Solicitor (Forest Service Branch). W. C. HENDERSON, Assistant to the Solicitor, in charge (temporary); HAROLD H. CLARKE, Assistant to the Solicitor.

ACCOUNTS—JOHN A. URBANOWICZ, District Fiscal Agent.

OPERATION—J. P. MARTIN, Assistant District Forester; E. W. KRAMER, District Engineer.

MAINTENANCE, R. J. MOORE.

SILVICULTURE—R. Y. STUART, Assistant District Forester; O. M. BUTLER, Assistant District Forester.

TIMBER SALES, Assistant District Foresters in Silviculture.

IDAHO—Projects completed: Reconnaissance fire-killed timber on Coeur d'Alene and Clearwater National Forests.

MONTANA—Reconnaissance, Deerlodge National Forest—J. S. Baird, Lumberman, Anaconda; R. P. Prichard, E. I. Terry, A. A. Saunders, L. C. Stockdale, C. L. Billings, and R. T. Ferguson.

Reconnaissance, Helena National Forest—Frank Thompkins and W. F. Hale, Helena.

Examination of fire trespass, Lewis and Clark National Forest (compilation of data)—F. I. Rockwell, O. A. Benson, Sidney Armitage, Missoula.

Projects completed: Reconnaissance of fire-killed timber, Lolo, Cabinet, Blackfeet, and Flathead National Forests.

PLANTING, Assistant District Foresters in Silviculture.

SILVICS, Assistant District Foresters in Silviculture.

Yield tables, lodgepole stands—C. N. Whitney, Anaconda, Mont.

Yield tables, white-pine stands (compilation of data)—F. I. Rockwell, Missoula, Mont.

COOPERATION, Bureau of Entomology.

Location of insect-infested timber and determination of methods of local control—Josef Brunner, Field Agent, Bureau of Entomology, Columbia Falls, Mont.

GRAZING—C. H. ADAMS, Assistant District Forester.

LANDS—R. H. RUTLEDGE, Assistant District Forester; JOHN D. JONES, Assistant.

PRODUCTS—P. R. HICKS, Engineer in Wood Preservation, on detail to the Forest Products Laboratory, Madison, Wis., from December 6, for two months.

NATIONAL FORESTS

IDAHO

Beaverhead—See Montana.

Clearwater—F. A. FENN, Forest Supervisor, Kooskia (WU-N); Edw. C. Thenon, Deputy Forest Supervisor; W. B. Willey, Forest Assistant.

Coeur d'Alene—W. G. WEIGLE, Forest Supervisor, Wallace (WU-Am); Roscoe Haines, Deputy Forest Supervisor; Charles A. Fisher, Deputy Forest Supervisor; W. W. Morris, Forest Assistant; C. H. Gregory, Lumberman.

Kaniksu—See Washington.

Nezperce—GEO. V. RING, Forest Supervisor, Grangeville (WU-Am); J. Arthur Brown, Deputy Forest Supervisor.

Pend Oreille—J. E. BARTON, Forest Supervisor, Sandpoint (WU-Am, N, W); Edw. G. Stahl, Deputy Forest Supervisor; James R. Gillis, Forest Assistant.

MICHIGAN

Marquette, **Michigan**—R. H. JOHNSON, Acting Forest Supervisor, Au Sable (WU-Am).

MINNESOTA

Minnesota—G. E. MARSHALL, Forest Supervisor, Cass Lake (WU-Am, GN); J. St. J. Benedict, Forest Assistant.

Superior—J. A. FITZWATER, Forest Supervisor, Ely (WU-GN).

MONTANA

Absaroka—V. GIFFORD LANTRY, Forest Supervisor, Livingston (WU-Am, N); John M. Bedford, Forest Assistant.

Beartooth—GLEN A. SMITH, Forest Supervisor, Billings (WU-Am, N); Donald R. Brewster, Forest Assistant.

Beaverhead—C. K. WYMAN, Forest Supervisor, Dillon (WU-Am); George E. Martin, Deputy Forest Supervisor; Chas. R. Clark, Forest Assistant.

Bitterroot—W. W. WHITE, Forest Supervisor, Missoula (WU-Am, N); M. N. Stickney, Deputy Forest Supervisor; Abbott B. Silva, Forest Assistant.

Blackfeet—J. F. PRESTON, Forest Supervisor, Kalispell (WU-Am, GN); R. P. McLaughlin, Deputy Forest Supervisor; J. A. Larsen, Forest Assistant.

Cabinet—RALPH H. BUSHNELL, Forest Supervisor, Thompson Falls (WU-Am, N); Claude W. Griffin, Deputy Forest Supervisor.

Custer—ELMER R. BRUNKE, Forest Supervisor, Ashland (WU via Crow Agency-Am, N via Forsyth); Edgar F. White, Forest Assistant.

Deerlodge—D. T. MASON, Forest Supervisor, Anaconda (P-Am, N); Harry C. Schick, Deputy Forest Supervisor; F. M. Patton, Deputy Forest Supervisor; C. N. Whitney and A. A. Saunders, Forest Assistants.

Flathead—PAGE S. BUNKER, Forest Supervisor, Kalispell (WU-Am, GN); John H. Clack, Deputy Forest Supervisor; J. L. Cobbs, Forest Assistant.

Gallatin—D. T. CONKLING, Forest Supervisor, Bozeman (WU-Am, N).

Helena—J. B. SEELY, Forest Supervisor, Helena (WU-Am, N); J. D. Warner, Deputy Forest Supervisor; Donald Bruce and Warren F. Hale, Forest Assistants.

Jefferson—WALLACE S. PERRINE, Forest Supervisor, Great Falls (WU-Am, N); Wellman Holbrook, Deputy Forest Supervisor; Henry H. Farquhar, Forest Assistant.

Kootenai—DORR SKEELS, Forest Supervisor, Libby (WU-Am, GN); Rutledge Parker, Deputy Forest Supervisor; Webster H. Ransom and William C. Latane, Forest Assistants.

Lewis and Clark—SCOTT LEAVITT, Forest Supervisor, Chouteau (WU via Collins-Am, GN via Collins).

Lolo—ELERS KOCH, Forest Supervisor, Missoula (WU, P-Am, N); Thos. C. Spaulding, Deputy Forest Supervisor; E. C. Clifford, Forest Assistant.

Madison—CLIFTON W. HUDSON, Forest Supervisor, Sheridan (WU-Am, N); W. B Piper, Deputy Forest Supervisor; Joseph W. Butler, Forest Assistant.

Missoula—D. G. KINNEY, Forest Supervisor, Missoula (WU, P-Am, N); Karl W. Woodward, Deputy Forest Supervisor; Richard C. Eggleston, Forest Assistant.

Sioux—See South Dakota.

NORTH DAKOTA

Dakota—C. A. BALLINGER, Forest Supervisor, Camp Crook, S. Dak. (WU via Bellefourche-Am via Bellefourche); H. E. Fegley, Forest Assistant.

SOUTH DAKOTA

Sioux—C. A. BALLINGER, Forest Supervisor, Camp Crook (WU via Bellefourche-Am via Bellefourche); H. E. Fegley, Forest Assistant.

WASHINGTON

Kaniksu—W. N. MILLAR, Forest Supervisor, Newport (WU-Am, GN); N. C. Brown, Deputy Forest Supervisor.

DISTRICT 2

Colorado, Wyoming, South Dakota, Nebraska, and western Kansas. Office, Majestic Building, Denver, Colo.

SMITH RILEY, District Forester; T. W. NORCROSS, District Engineer.

LAW—Office of the Solicitor (Forest Service Branch). GEO. E. TROWBRIDGE, Assistant to the Solicitor, in charge; J. F. LAWSON, Assistant to the Solicitor.

ACCOUNTS—H. I. LOVING, District Fiscal Agent.

OPERATION—FRED W. MORRELL, Assistant District Forester.

MAINTENANCE, F. B. AGEE.

SILVICULTURE—S. L. MOORE, Assistant District Forester.

TIMBER SALES, Assistant District Forester in Silviculture.

PLANTING, JOHN BENTLEY, Jr.

SILVICS, C. G. BATES.

COLORADO—Correlation and report on data obtained in 1910 silvical experiments—C. G. Bates, Denver.

Fremont Experiment Station. Preparation of report on 1910 planting, and other silvical experiments—W. D. Hayes and T. E. Miller, Manitou.

Wagon Wheel Gap Experiment Station. Streamflow, snowfall, and meteorological observations—R. D. Garver, in cooperation with B. C. Kadel, of the Weather Bureau, Wagon Wheel Gap.

GRAZING—J. W. NELSON, Assistant District Forester.

LANDS—C. J. STAHL, Assistant District Forester.

PRODUCTS—H. S. BETTS, Assistant District Forester.

TIMBER TESTS—Timber-testing laboratory in cooperation with the University of Colorado, Boulder, Colo.—N. de W. Betts, in charge.

Tests on small pieces cut from red cedar, lodgepole pine, and Engelmann spruce telephone poles.

Adaptation of working plan on standard tests to the commercial species found in District 2.

WOOD PRESERVATION—Study of wood-preservation methods for permanent improvement work on National Forests in District 2—H. M. Mason, jr., Denver, Colo.

Inspection of metal mines in Telluride district, southern Colorado, to determine feasibility of treating mine timbers—H. M. Mason, jr., and H. S. Betts.

Preparation of preliminary report on cooperative open-tank treating plant at Agricultural College, Fort Collins, Colo.—H. M. Mason, jr.

Study of the use of native timbers for crossties by railroads operating in Colorado—N. de W. Betts.

WOOD UTILIZATION—Study of wood-using industries in Districts 2, 3, and 4—H. S. Betts.

Preparation of working plan for turpentine experiments—H. S. Betts.

Preparation of preliminary report on utilization of dead timber—N. de W. Betts and H. S. Betts.

NATIONAL FORESTS

COLORADO

Arapaho—ARTHUR M. COOK, Forest Supervisor, Fraser (WU-Ad); Arthur T. Upson, Forest Assistant.

Battlement—JOHN W. LOWELL, Jr., Acting Forest Supervisor, Collbran (WU-WF, G).

Cochetopa—EUGENE WILLIAMS, Forest Supervisor, Saguache (WU-G); Charles P. Bliss, Forest Assistant.

Colorado—H. N. WHEELER, Forest Supervisor, Fort Collins (WU-WF); H. B. Holroyd, Deputy Forest Supervisor; Harold C. Clark, Forest Assistant.

Gunnison—WM. R. KREUTZER, Forest Supervisor, Gunnison (WU-WF, G); E. C. Berky, Deputy Forest Supervisor.

Hayden—See Wyoming.

Holy Cross—HARRY H. FRENCH, Forest Supervisor, Glenwood Springs (WU-WF, G); Albert H. Miller, Deputy Forest Supervisor; Stephen V. Klem, Forest Assistant.

La Sal—See Utah, District 4.

Leadville—THEODORE SHOEMAKER, Forest Supervisor, Leadville (WU, P-WF, G); R. E. Clark, Deputy Forest Supervisor; J. E. Martin, Forest Assistant.

Montezuma—RESS PHILLIPS, Forest Supervisor, Mancos (WU-G); R. W. Allen, Deputy Forest Supervisor; Frank B. Notestein, Forest Assistant.

Pike—C. W. FITZGERALD, Forest Supervisor, Denver (WU, P-Ad, Am, G. US, WF); C. M. Granger, Deputy Forest Supervisor; W. I. Hutchinson and W. H. Mast, Forest Assistants; Monument Nursery—W. Schrader, Forest Planting Assistant, Monument.

Rio Grande—W. J. MORRILL, Forest Supervisor, Monte Vista (WU-G); Walter F. Bowers, Deputy Forest Supervisor; Jay Higgins, Forest Assistant.

Routt—J. H. RATLIFF, Forest Supervisor, Steamboat Springs (WU-Ad); P. J. Paxton, Forest Assistant.

San Isabel—J. N. LANGWORTHY, Forest Supervisor, Westcliffe (WU-G); M. B. Willey, Deputy Forest Supervisor; Seaward D. Smith, Forest Assistant.

San Juan, East—A. L. SWEITZER, Forest Supervisor, Pagosa Springs (WU-G).

San Juan, West—Ernest W. SHAW, Forest Supervisor, Durango (WU-G); John C. De Camp, Forest Assistant.

Sopris—JOHN MCLAREN, Forest Supervisor, Aspen (WU-WF, G); Joseph H. Potts, Forest Assistant.

Uncompahgre—HOWARD S. BUSHNELL, Forest Supervisor, Delta (WU-G); L. E. Cooper, Deputy Forest Supervisor; J. H. Ramskill, Forest Assistant.

White River—JAMES A. BLAIR, Forest Supervisor, Meeker (WU-WF, G); G. P. Bard and Crosby A. Hoar, Forest Assistants.

KANSAS

Kansas—B. R. H. D'ALLEMAND, Forest Supervisor, Garden City (WU, P-WF); Garden City Nursery.

NEBRASKA

Nebraska—R. G. PIERCE, Acting Forest Supervisor, Halsey (WU-Ad); Halsey Nursery—C. R. Bechtle, Forest Planting Assistant.

SOUTH DAKOTA

Black Hills, North—PAUL D. KELLETER, Fores Supervisor, Deadwood (WU-Ad, Am); John Murdoch, jr., Forest Assistant.

Black Hills, South—R. P. IMES, Forest Supervisor, Custer (WU-Ad); G. A. Duthie, Forest Assistant.

WYOMING

Bighorn—E. N. KAVANAGH, Forest Supervisor, Sheridan (WU-Ad); Andrew G. Stockwell, Deputy Forest Supervisor; Earl S. Pierce, Forest Assistant.

Bonneville, Green River—H. C. HALL, Forest Supervisor, Pinedale (WU-Am).

Bonneville, Sweetwater—C. G. POOLE, Forest Supervisor, Lander (WU-Am).

Bonneville, Wind River—H. EARL FRENCH, Forest Supervisor, Dubois (WU-Am).

Hayden—JAMES BLACKHALL, Forest Supervisor, Encampment (WU, P-Am); Roy S. Wheeler, Forest Assistant.

Medicine Bow—P. S. LOVEJOY, Forest Supervisor, Laramie (WU, P-Am); R. A. Stretch, Forest Assistant.

Shoshone—H. W. THURSTON, Forest Supervisor, Cody (WU-Ad).

Sundance—LOUIS KNOWLES, Forest Supervisor, Sundance (WU-Ad, Am).

DISTRICT 3

Arizona, Arkansas, Florida, New Mexico, and Oklahoma. Office, Strickler-Luna Building, Albuquerque, N. Mex.

A. C. RINGLAND, District Forester; E. H. CLAPP, Associate District Forester.

LAW—Office of the Solicitor (Forest Service Branch). BLAKE FRANKLIN, Assistant to the Solicitor, in charge; R. F. FEAGANS, Assistant to the Solicitor.

ACCOUNTS—J. J. DUFFY, District Fiscal Agent.

OPERATION—A. O. WAHA, Assistant District Forester; A. S. PECK, Assistant District Forester.

MAINTENANCE, W. B. BUNTON.

SILVICULTURE—T. S. WOOLSEY, Jr., Assistant District Forester; A. B. RECKNAGEL, Assistant District Forester.

ARKANSAS—Reconniassance of the Arkansas and Ozark National Forests—J. H. Allison, in charge; T. B. Longwell, Field Chief; assistants, W. W. Bennett, L. L. Bishop, Harry Franklin, Clarence Goddard, D. D. Harkness, S. B. Hinkle, R. E. Hopson, Herman Krauch, R. T. Ross, Robt. L. Stephenson, I. C. Waterbury, T. F. Wells, Dave Winbray; H. E. Greenleaf, draftsman for Arkansas National Forest; E. C. Hamilton, draftsman for Ozark National Forest.

SILVICS, COCONINO FOREST EXPERIMENT STATION—G. A. PEARSON, Albuquerque, N. Mex., in charge; assistants, Max H. Foerster, Flagstaff, Ariz., and H. H. Greenamyre, Albuquerque, N. Mex.

Sample plots on cut-over areas, Arkansas and Ozark National Forests—H. D. Burrall, in charge; assistants, Robt. S. Wallace and Norman W. Scherer.

GRAZING—J. K. CAMPBELL, Assistant District Forester; JOHN KERR, Assistant District Forester.

LANDS—FRANK C. W. POOLER, Assistant District Forester.

NATIONAL FORESTS

ARIZONA

Apache—JOHN D. GUTHRIE, Forest Supervisor, Springerville (WU, P-WF); Frederick Winn, Deputy Forest Supervisor; Aldo Leopold, Forest Assistant.

Chiricahua—A. H. ZACHAU, Forest Supervisor, Portal (WU, P-WF); Ira T. Yarnall, Forest Assistant.

Coconino—WILLARD M. DRAKE, Acting Forest Supervisor, Flagstaff (WU, P-WF); J. C. KIRCHER, Forest Assistant.

Coronado—ROBERT J. SELKIRK, Forest Supervisor, Tucson (WU, P-WF); Robert L. Rogers, Deputy Forest Supervisor.

Crook—T. T. SWIFT, Forest Supervisor, Safford (WU-WF).

Garces—ROBERT J. SELKIRK, Forest Supervisor, Tucson (WU, P-WF); Robert L. Rogers, Deputy Forest Supervisor.

Prescott—C. H. HINDERER, Forest Supervisor, Prescott (WU-WF); J. C. McNelty, Deputy Forest Supervisor.

Sitgreaves—A. J. MACKAY, Forest Supervisor, Snowflake (WU, P-WF); Chas. H. Jennings, Deputy Forest Supervisor; William J. Duppert, Forest Assistant.

Tonto—R. G. WILLSON, Forest Supervisor, Roosevelt (WU-WF).

Tusayan—STANTON G. SMITH, Forest Supervisor, Williams (WU, P-WF); E. H. Crabb, Deputy Forest Supervisor; Gordon T. Backus, Forest Assistant.

Zuni—See New Mexico.

ARKANSAS

Arkansas—D. W. ADAMS, Forest Supervisor, Hot Springs (WU, P-WF, P); S. A. Chappell, Deputy Forest Supervisor; C. J. Heller and H. L. Johnson, Forest Assistants.

Ozark—FRANCIS KIEFER, Forest Supervisor, Harrison (WU-WF); Ralph C. Huey, Deputy Forest Supervisor; L. L. Janes and Geo. C. Morbeck, Forest Assistants.

FLORIDA

Choctawhatchee, **Ocala**—I. F. ELDREDGE, Forest Supervisor, Pensacola; W. F. Hill, Deputy Forest Supervisor; P. D. Edmunds, Forest Agent.

NEW MEXICO

Alamo—C. C. Hall, Forest Supervisor, Alamogordo (WU, P-WF); R. F. Balthis, Deputy Forest Supervisor; Raymond E. Marsh, Forest Assistant.

Carson—ROSS MCMILLAN, Forest Supervisor, Antonito, Colo. (WU-G); Harry C. Hall, Deputy Forest Supervisor.

Chiricahua—See Arizona.

Datil—W. H. GODDARD, Forest Supervisor, Magdalena (WU, P-WF); Robert L. Deering, Forest Assistant.

Gila—DON P. JOHNSTON, Acting Forest Supervisor, Silver City (WU-WF); Barrington Moore, Forest Assistant; Chas. A. Kissam, Forest Agent; Fort Bayard Nursery—H. C. Turner, Forest Planting Assistant.

Jemez—FRANK E. ANDREWS, Forest Supervisor, Santa Fe (WU, P-WF); B. M. Thomas and A. D. Read, Deputy Forest Supervisors; Charles D. Faunce, Forest Assistant.

Lincoln—J. A. KINNEY, Forest Supervisor, Capitan (WU, P-WF).

Manzano—W. R. MATTOON, Forest Supervisor, Albuquerque (WU, P-WF); James F. Mullen, Deputy Forest Supervisor.

Pecos—THOS. R. STEWART, Forest Supervisor, Pecos (WU, P-WF); Hugh G. Calkins, Deputy Forest Supervisor; Las Gallinas Nursery—H. D. Burrall, Forest Planting Assistant.

Zuni—W. R. MATTOON, Forest Supervisor, Albuquerque (WU, P-WF); James F. Mullen, Deputy Forest Supervisor.

OKLAHOMA

Wichita—FRANK RUSH, Game Warden, in charge, Cache (WU-WF).

DISTRICT 4

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Forest Service Building, Ogden, Utah.

E. A. SHERMAN, District Forester; FRANKLIN W. REED, Associate District Forester.

LAW—Office of the Solicitor (Forest Service Branch). A. W. JENSEN, Assistant to the Solicitor, in charge.

ACCOUNTS—Q. R. CRAFT, District Fiscal Agent.

OPERATION—A. C. MCCAIN, Assistant District Forester.

MAINTENANCE, FELIX T. MOORE.

SILVICULTURE—L. L. WHITE, Assistant District Forester.

TIMBER SALES, Assistant District Forester in Silviculture.

ARIZONA—Compiling data and preparation of map, Kaibab reconnaissance—D. M. Lang, Nils Eckbo, and S. S. Stewart, Ogden, Utah.

IDAHO—Compiling data, reconnaissance Salmon National Forest—Lincoln Crowell, in charge; assistants, Wm. W. Twaddell, jr., Wm. Sparhawk, and Samuel B. Locke.

Compiling data, reconnaissance of Targhee National Forest—C. E. Dunston; assistants, Herman Work, Douglas Hood, H. B. Moris, and L. H. Kooyumjian.

PLANTING, J. M. FETHEROLF.

UTAH—Field planting, Wasatch National Forest—Robert Rosenbluth and Dana Parkinson.

SILVICS, E. R. HODSON.

Compilation of growth and volume data on aspen—F. T. McLean, Ogden, Utah.

GRAZING—HOMER E. FENN, Assistant District Forester; G. G. BENTZ, Assistant District Forester.

LANDS—T. C. HOYT, Assistant District Forester.

SUPPLY DEPOT—A. M. SMITH, Property Clerk.

PROPERTY AUDIT—J. G. FALCK, Property Auditor.

NATIONAL FORESTS

ARIZONA

Dixie—See Utah.

Kaibab—JAMES L. PELTON, Forest Supervisor, Kanab, Utah (WU-WF); Sidney S. Stewart, Forest Assistant.

IDAHO

Boise—E. GRANDJEAN, Forest Supervisor, Boise (WU-Am); M. S. Benedict, Deputy Forest Supervisor.

Cache—See Utah.

Caribou—N. E. SNELL, Forest Supervisor, Idaho Falls (WU-Am); James H. Johnson, Grazing Assistant.

Challis—DAVID LAING, Forest Supervisor, Challis (WU-Am).

Idaho—J. E. ROTHERY, Forest Supervisor, McCall (WU-P).

Lemhi—C. I. HUDDLE, Forest Supervisor, Mackay (WU-Am).

Minidoka—WM. MCCOY, Forest Supervisor, Oakley (WU-Am).

Palisade—DAN S. PACK, Forest Supervisor, St. Anthony (WU-Am); James B. Saxton, Forest Assistant.

Payette—GUY B. MAINS, Forest Supervisor, Emmett (WU-Am); Frank J. Ryder, Deputy Forest Supervisor.

Pocatello—J. F. BRUINS, Forest Supervisor, Pocatello (WU-Am); A. L. Brower, Forest Assistant; Pocatello Nursery—P. T. Wrensted, Forest Ranger.

Salmon—JAMES M. RYAN, Forest Supervisor, Salmon (WU-Am); John A. Pearson, Deputy Forest Supervisor; Irwin W. Cook, Lincoln Crowell, Samuel B. Locke, William N. Sparhawk, and Wm. W. Twaddell, jr., Forest Assistants.

Sawtooth—C. N. WOODS, Forest Supervisor, Hailey (WU-Am); H. G. McPheters, Deputy Forest Supervisor; Lester E. Hitchcock, Forest Assistant.

Targhee—DAVID BARNETT, Forest Supervisor, St. Anthony (WU-Am); Chester B. Morse, Deputy Forest Supervisor; C. E. Dunston, Forest Examiner.

Weiser—J. B. LAFFERTY, Forest Supervisor, Weiser (WU-Am); W. M. Campbell Deputy Forest Supervisor; A. E. Oman, Forest Assistant.

NEVADA

Humboldt—C. SYDNEY TREMEWAN, Forest Supervisor, Elko (WU-WF); W. W. Blakeslee, Deputy Forest Supervisor; Herman Work, Forest Assistant.

Moapa—THOMAS J. COLLINS, Acting Forest Supervisor, Las Vegas (WU-WF); Levon H. Kooyumjian, Forest Assistant.

Nevada—R. F. MATHIAS, Forest Supervisor, Ely (WU-WF); Rudolph Dieffenbach, Deputy Forest Supervisor; Robert Rosenbluth and Reese W. Taylor, Forest Assistants.

Toiyabe—HERBERT GRAFF, Forest Supervisor, Austin (WU, P-WF).

UTAH

Ashley—W. M. ANDERSON, Forest Supervisor, Vernal (WU-WF).

Cache—CLINTON G. SMITH, Forest Supervisor, Logan (WU-Am); John Riis, Deputy Forest Supervisor.

Dixie—JOHN RAPHAEL, Forest Supervisor, St. George (WU-WF); Nils B. Eckbo, Forest Agent.

Fillmore—WM. HURST, Forest Supervisor, Beaver (WU-WF); George C. Thompson, Deputy Forest Supervisor.

Fishlake—CARL B. ARENTSON, Forest Supervisor, Salina (WU-WF).

La Sal—HENRY A. BERG, Forest Supervisor, Moab (WU-WF).

Manti—C. L. SMITH, Forest Supervisor, Ephraim (WU-WF); Ernest Winkler, Deputy Forest Supervisor; Parley Christiansen, Grazing Assistant; F. T. McLean, Forest Assistant.

Minidoka—See Idaho.

Nebo—H. F. STUDLEY, Forest Supervisor, Nephi (WU-WF); Dana Parkinson, Forest Assistant.

Pocatello—See Idaho.

Powell—GEO. H. BARNEY, Forest Supervisor, Escalante (WU-WF).

Sevier—O. C. SNOW, Forest Supervisor, Panguitch (WU-WF).

Uinta—W. I. PACK, Forest Supervisor, Provo (WU-WF); J. Carl Allred, Deputy Forest Supervisor; W. Jones Bowen, Grazing Assistant.

Wasatch—E. H. CLARKE, Forest Supervisor, Salt Lake City (WU, P-Am,WF); Wasatch Nursery—N. J. Fetherolf, Forest Planting Assistant.

WYOMING

Ashley—See Utah.

Caribou—See Idaho.

Targhee—See Idaho.

Teton—R. E. MILLER, Forest Supervisor, Jackson (WU-Am).

Wyoming—JAMES E. JEWELL, Forest Supervisor, Afton (WU-Am); L. J. Phelan, Deputy Forest Supervisor; Glidden J. Barstow, Grazing Assistant; John E. Ingram, Forest Assistant.

DISTRICT 5

California and southwestern Nevada. Office, First National Bank Building, San Francisco, Cal.

F. E. OLMSTED, District Forester; COERT DUBOIS, Associate District Forester; WALTER L. HUBER, District Engineer; CLARENCE WILEY, Inspector of Records.

LAW—Office of the Solicitor (Forest Service Branch). H. P. DECHANT, Assistant to the Solicitor, in charge.

ACCOUNTS—F. C. THOMPSON, District Fiscal Agent.

OPERATION—ROY HEADLEY, Assistant District Forester.

MAINTENANCE, M. R. Tillotson.

SILVICULTURE—T. D. WOODBURY, Assistant District Forester.

TIMBER SALES, Assistant District Forester in Silviculture.

Supervision of important timber sales on the Plumas National Forest—Patrick Kennedy, Quincy, Cal.

Reconnaissance on the Plumas National Forest—C. H. Ensign, Lumberman, Quincy, Cal.

Investigations of timber trespass on the Tahoe National Forest—J. C. Elliott, Nevada City, Cal.

SILVICS, Assistant District Forester in Silviculture.

Study of tree diseases in the California National Forests—E. P. Meinecke, Consulting Pathologist, San Francisco, Cal.

Study of insect-infested timber—John M. Miller, Forest Ranger, Northfork, Cal.

Planting on Goat Island in San Francisco Harbor, in cooperation with the Berkeley Chamber of Commerce—Swift Berry, Forest Assistant, San Francisco, Cal.

GRAZING—JOHN H. HATTON, Assistant District Forester; M. B. ELLIOTT, Assistant District Forester.

LANDS—L. A. BARRETT, Assistant District Forester.

PRODUCTS—C. STOWELL SMITH, Assistant District Forester.

WOOD PRESERVATION—Experiments to determine the best methods of seasoning *Eucalyptus globulus* poles, logs, and lumber, in cooperation with the estate of Adolph Sutro, the Pacific Land Investment Company, the Mount Tamalpais Cemetery Association, the Parkside Realty Company, and the Pioneer Wood Company; and *Eucalyptus viminalis* logs, in cooperation with the University of California—C. Stowell Smith, San Francisco, Cal.

Operation of a portable treating plant in Long and Honey Lake Valleys, Lassen County—C. A. Kupfer.

Preservative treatment of telephone poles for permanent improvement, Sierra and California National Forests—C. Stowell Smith.

Experiments to determine the relative resistance to marine wood borers of different species of untreated timber and of Douglas fir treated by various preservatives and coatings—A. K. Armstrong, San Francisco, Cal.

WOOD UTILIZATION—Installation of an experimental dry-kiln at the Santa Monica Experiment Station for eucalyptus and California hardwoods, in cooperation with the State Board of Forestry.

Study of the wood-using industries of the State, in cooperation with the State Board of Forestry.

Study of fence-post, mine-timber, and telephone-pole situation on and adjacent to the Inyo National Forest—Jas. B. Berry, Forest Assistant, Bishop, Cal.

Turpentining experiments on the Sierra National Forest and in cooperation with the Union Lumber Company, Fort Bragg, to determine the yield and cost of operation per unit of area on western yellow, Digger, lodgepole, and pricklecone pines.

NATIONAL FORESTS

CALIFORNIA

Angeles—R. H. CHARLTON, Forest Supervisor, Los Angeles (WU, P-WF); Ernest B. Long, Deputy Forest Supervisor; J. M. Grant, Forest Expert, in charge of planting operations; Serope Y. Parnay, Forest Planting Assistant, San Bernardino.

California—D. P. Godwin, Acting Forest Supervisor, Willows (P-WF); A. W. Bartlett, Deputy Forest Supervisor; S. W. Strothman, Forest Assistant.

Cleveland—H. A. E. Marshall, Forest Supervisor, San Diego (WU, P-WF); Percy L. Day, Deputy Forest Supervisor; F. L. Rickey, Planting Assistant.

Eldorado—Evan W. Kelley, Acting Forest Supervisor, Placerville (WU-WF).

Inyo—A. H. Hogue, Forest Supervisor, Bishop (WU-WF); Jas. B. Berry, Forest Assistant.

Kern—W. J. Rushing, Acting Forest Supervisor, Bakersfield (WU-WF); Jas. O. Morrow, Deputy Forest Supervisor.

Klamath—W. B. Rider, Forest Supervisor, Yreka (WU-WF); J. R. Hall, Deputy Forest Supervisor; Shirley W. Allen, Forest Assistant.

Lassen—L. A. H. Kling, Forest Supervisor, Red Bluff (P-WF); J. C. La Plant, Deputy Forest Supervisor.

Modoc—C. E. Rachford, Forest Supervisor, Alturas (P-WF); Vernon L. Bonner, Deputy Forest Supervisor; Belknap C. Goldsmith, Forest Assistant.

Mono—See Nevada.

Monterey—Raymond Tyler, Forest Supervisor, Salinas (WU-WF).

Plumas—D. N. Rogers, Forest Supervisor, Quincy (WU-WF); W. G. Durbin, Deputy Forest Supervisor; R. S. Maddox and Geo. R. Orr, Forest Assistants.

Santa Barbara—Willis M. Slosson, Forest Supervisor, Santa Barbara (P-WF); H. G. Merrill, Deputy Forest Supervisor.

Sequoia—Allan B. Patterson, Forest Supervisor, Hot Springs, Tulare County (WU via Portersville-W F); W. C. Burton, Deputy Forest Supervisor; S. W. Wynee, Forest Assistant.

Shasta—R. F. Hammatt, Forest Supervisor, Sisson (P-WF); Philip T. Harris, Deputy Forest Supervisor; John D. Coffman and Stewart B. Show, Forest Assistants.

Sierra—P. G. Redington, Forest Supervisor, Northfork (WU via Fresno-WF); M. A. Benedict, Deputy Forest Supervisor; Ernest G. Dudley, Forest Assistant.

Stanislaus—R. W. Ayres, Forest Supervisor, Sonora (WU-WF); J. V. Wulff and Louis T. Larsen, Forest Assistants.

Tahoe—R. L. P. Bigelow, Forest Supervisor, Nevada City (WU-WF); M. B. Pratt, Deputy Forest Supervisor; J. Alfred Mitchell and Wm. H. Gallaher, Forest Assistants.

Trinity—F. H. Hafley, Forest Supervisor, Weaverville (WU-WF); W. A. Huestis, Deputy Forest Supervisor; Ernest V. Jotter, Forest Assistant.

NEVADA

Inyo—See California.

Mono—Wm. M. Maule, Forest Supervisor, Gardnerville (WU-WF); T. C. West, Deputy Forest Supervisor; Rex King, Forest Assistant.

Tahoe—See California.

DISTRICT 6

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

C. S. CHAPMAN, District Forester; GEO. H. CECIL, Associate District Forester; W. E. HERRING, District Engineer.

LAW—Office of the Solicitor (Forest Service Branch). W. F. STALEY, Assistant to the Solicitor, in charge; D. F. MCGOWAN, Assistant to the Solicitor.

ACCOUNTS—A. H. COUSINS, District Fiscal Agent.

OPERATION—C. H. FLORY, Assistant District Forester.

MAINTENANCE, SHIRLEY BUCK.

SILVICULTURE—F. E. AMES, Assistant District Forester; C. S. JUDD, Assistant District Forester.

Study of forest taxation in Washington—F. B. Kellogg and F. G. Miller, Forest Assistants.

TIMBER SALES, Assistant District Foresters in Silviculture.

OREGON—Examination of proposed sale areas on the Crater National Forest—D. L. McKay, Scaler, Medford.

WASHINGTON—Scaling on the Olympic National Forest—Edwin C. Erickson, Scaler, Olympia.

PLANTING, J. F. KÜMMEL.

SILVICS, T. T. MUNGER.

GRAZING—T. P. MACKENZIE, Assistant District Forester.

LANDS—C. J. BUCK, Assistant District Forester.

PRODUCTS—J. B. KNAPP, Assistant District Forester.

TIMBER TESTS—Testing laboratory in cooperation with the University of Washington, Seattle, Wash.—O. P. M. Goss, in charge; assistants, C. W. Zimmerman and H. P. Wyckoff.

WOOD PRESERVATION—Experimental operation of an open-tank treating plant in cooperation with the University of Washington Forest School—O. P. M. Goss, Seattle, Wash.

WOOD UTILIZATION—Study of the market for and uses of forest products on the Olympic Peninsula in the State of Washington—J. B. Knapp, Portland, Oreg.

Study of the market for and uses of forest products in the Spokane territory—J. B. Knapp, Portland, Oreg., and C. W. Dunning, Spokane, Wash.

Study of the wood-using industries of Oregon and Washington in cooperation with the State conservation associations—H. B. Oakleaf, Portland, Oreg.

Mill-scale study of Douglas fir—H. B. Oakleaf, Portland, Oreg.

NATIONAL FORESTS

ALASKA

Chugach—W. A. LANGILLE, Forest Supervisor, Ketchikan (SC, U. S. A., WU-AP, Am); Thos. M. Hunt, Deputy Forest Supervisor; Lage Wernstedt and Bruce Hoffman, Forest Assistants.

Tongas—W. A. LANGILLE, Forest Supervisor, Ketchikan (SC, U. S. A., WU-AP, Am); Lage Wernstedt, Forest Assistant.

CALIFORNIA

Crater—See Oregon.

Siskiyou—See Oregon.

OREGON

Cascade—C. R. Seitz, Forest Supervisor, Eugene (WU, P-WF); J. R. Harvey, Deputy Forest Supervisor; E. B. Starr and B. Frank Heintzleman, Forest Assistants.

Crater—M. L. Erickson, Forest Supervisor, Medford (WU, P-WF); S. S. Swenning, Deputy Forest Supervisor; H. D. Foster and William E. White, Forest Assistants.

Deschutes—A. S. Ireland, Forest Supervisor, Prineville (PT & T-Am via Shaniko, WF via Shaniko); B. F. Johnson, Deputy Forest Supervisor; Reginald R. Chaffee, Forest Assistant.

Fremont—Gilbert D. Brown, Forest Supervisor, Lakeview (WU via Reno, Nev.-WF); Norman G. Jacobson, Forest Assistant; Nelson J. Billings, Grazing Assistant.

Malheur—Cy. J. Bingham, Forest Supervisor, John Day (WU via Baker City-Am, WF via Baker City); D. B. Reynolds, Deputy Forest Supervisor; Herbert J. Miles, Forest Assistant.

Oregon—T. H. Sherrard, Forest Supervisor, Portland (WU, P-Am, WF, N); Ralph S. Shelley, Deputy Forest Supervisor; W. B. Osborne, Max Rothkugel, and Robie M. Evans, Forest Assistants.

Siskiyou—R. L. Fromme, Forest Supervisor, Grants Pass (WU, P-WF); N. F. McDuff, Deputy Forest Supervisor; H. Haefner, Forest Assistant.

Siuslaw—A. E. Cohoon, Forest Supervisor, Eugene (WU, P-WF); David E. Fitton, Deputy Forest Supervisor; R. E. Dickson, Forest Assistant.

Umatilla—Thos. E. Chidsey, Forest Supervisor, Heppner (WU-Am); George A. Bright, Forest Assistant.

Umpqua—S. C. Bartrum, Forest Supervisor, Roseburg (WU, P-WF); E. H. McDaniels and Wilmot W. G. Hastings, Forest Assistants.

Wallowa—H. W. Harris, Forest Supervisor, Wallowa (WU-Am); S. A. Brown, Deputy Forest Supervisor; Charles Black, Grazing Assistant.

Wenaha—See Washington.

Whitman—Henry Ireland, Forest Supervisor, Sumpter (WU via Baker City-Am, WF via Baker City); M. L. Merritt, Forest Assistant.

WASHINGTON

Chelan—G. W. Milham, Forest Supervisor, Chelan (PT & T-Am, GN via Wenatchee); H. M. Coan, Forest Assistant.

Chelan (Okanogan)—H. M. Hale, Forest Supervisor, Okanogan.

Columbia—H. O. Stabler, Forest Supervisor, Portland, Oreg. (WU, P-Am, WF, N); Homer Ross, Deputy Forest Supervisor; A. R. Wilcox, Forest Assistant.

Colville—C. C. Reid, Forest Supervisor, Republic (WU, P-Am, GN); F. W. Cleator, Deputy Forest Supervisor; Edward W. Headsten, Forest Assistant.

Olympic—R. E. Benedict, Forest Supervisor, Olympia (WU-Am, GN, N); A. A. Parker, Deputy Forest Supervisor; Harold P. Gilky and William H. Gibbons, Forest Assistants.

Rainier—G. F. Allen, Forest Supervisor, Tacoma (WU, P-Am, N); H. L. Hurd, Deputy Forest Supervisor; E. J. Fenby and Robert G. Merritt, Forest Assistants.

Snoqualmie—B. P. Kirkland, Forest Supervisor, Seattle (WU, P-N, GN, WF); E. T. Clark, Deputy Forest Supervisor; A. G. Jackson, Forest Assistant.

Washington—C. H. Park, Forest Supervisor, Bellingham (WU, P-Am, GN, N); F. H. Brundage, Deputy Forest Supervisor; Herman M. Johnson, Forest Assistant.

Wenaha—J. M. Schmitz, Forest Supervisor, Walla Walla (WU-Am, N).

Wenatchee—A. H. Sylvester, Forest Supervisor, Leavenworth (WU-Am, GN); S. A. Blankenship, Deputy Forest Supervisor; C. P. Willis, Forest Assistant.

SERVICE CHANGES

APPOINTED

Silviculture—State and Private Cooperation: Geo. J. Withington, Field Assistant.

Products—Laboratory: Fred W. Kressman, Assistant Chemist; James C. Lawrence, Assistant Chemical Engineer; Robert C. Palmer, Assistant Chemical Engineer; John H. Thickens, Assistant Chemical Engineer; R. E. Stoelting, Assistant Engineer; G. C. McNaughton, Assistant Chemical Engineer.

District 1—Lands: Clarence E. Miles, Claims Examiner.

District 2—Operation: Henry G. Reinsch, Forest Expert, Pike National Forest.

District 6—Products: Carroll W. Dunning, Expert.

RESTORED TO THE ROLLS

District 1—Operation: N. C. Brown, Deputy Forest Supervisor, Kaniksu National Forest.

District 2—Operation: Walter H. Schrader, Forest Planting Assistant, Pike National Forest.

CHANGE IN DESIGNATION

Grazing—James T. Jardine, from Deputy Forest Supervisor to Inspector of Grazing.

Products—Laboratory: McGarvey Cline, from Assistant Forester to Director.

District 1—Operation: W. H. Daugs, from Forest Supervisor to Forest Ranger, Lewis and Clark National Forest; Wallace S. Perrine, from Assistant District Forester to Forest Supervisor, Jefferson National Forest; R. H. Johnson, from Assistant Forest Ranger to Acting Forest Supervisor, Marquette and Michigan National Forests.

District 6—Products: H. P. Wyckoff, Assistant Engineer in Forest Products.

TRANSFERRED

District 1—Operation: J. B. Seeley, Forest Supervisor, from Jefferson National Forest to Helena National Forest; Glen A. Smith, Forest Supervisor, from Custer National Forest to Beartooth National Forest; J. F. Preston, Forest Supervisor, from Beartooth National Forest to Blackfeet National Forest.

District 2—District Forester's Office: Paul G. Redington, Associate District Forester to Forest Supervisor, Sierra National Forest, District 5.

District 3—Operation: Forest Assistants—Raymond E. Marsh, from Apache National Forest to Alamo National Forest; Henry L. Johnson, from Pecos National Forest to Arkansas National Forest; Ira T. Yarnall, from Pecos National Forest to Chiricahua National Forest; Frederick R. Starr, from Carson National Forest to Coronado National Forest; George C. Morbeck, from Gila National Forest, and Lionel L. Janes, from Arkansas National Forest to Ozark National Forest.

District 4—Operation: Herbert Graff, Deputy Forest Supervisor, from Bighorn National Forest (District 2) to Toiyabe National Forest.

District 5—Operation: P. G. Redington, Associate District Forester, District 2, to Forest Supervisor, Sierra National Forest.

PROMOTED

District 1—Operation: Scott Leavitt, Deputy Forest Supervisor, Beaverhead National Forest, to Forest Supervisor, Lewis and Clark National Forest; Elmer R. Brunke, Deputy Forest Supervisor, Kaniksu National Forest, to Forest Supervisor, Custer National Forest; George E. Martin, from Forest Ranger to Deputy Forest Supervisor, Beaverhead National Forest; J. A. Fitzwater, from Acting Forest Supervisor to Forest Supervisor, Superior National Forest.

District 2—Operation: Andrew G. Stockwell, from Assistant Forest Ranger to Deputy Forest Supervisor, Bighorn National Forest.

District 4—Operation: James L. Pelton, from Deputy Forest Supervisor, Toiyabe National Forest, to Forest Supervisor, Kaibab National Forest; Julian E. Rothery, from Deputy Forest Supervisor to Forest Supervisor, Idaho National Forest; Carl B. Arentson, from Deputy Forest Supervisor to Forest Supervisor, Fishlake National Forest; Horace F. Studley, from Deputy Forest Supervisor to Forest Supervisor, Nebo National Forest; Rudolph Dieffenbach, from Forest Assistant to Deputy Forest Supervisor, Nevada National Forest; J. Carl Allred, from Forest Ranger to Deputy Forest Supervisor, Uinta National Forest; John Riis, from Forest Ranger, Targhee National Forest, to Deputy Forest Supervisor, Cache National Forest; Thomas J. Collins, from Assistant Forest Ranger to Deputy Forest Supervisor, Moapa National Forest.

District 5—Operation: William J. Rushing, from Forest Ranger to Forest Supervisor, Kern National Forest; Evan W. Kelly, from Forest Ranger to Forest Supervisor, Eldorado National Forest; Arthur W. Bartlett, from Forest Ranger to Deputy Forest Supervisor, California National Forest; James O. Morrow, from Forest Ranger to Deputy Forest Supervisor, Kern National Forest.

LEAVE WITHOUT PAY

FORESTER—Editor: Treadwell Cleveland, jr., Expert.

DISTRICT 1—Operation: S. M. Higgins, Acting Forest Supervisor, Michigan and Marquette National Forests; James A. Howarth, jr., Forest Assistant, Superior National Forest.

DISTRICT 2—Operation: Edgar G. Polleys, Forest Assistant, Battlement National Forest.

FURLOUGHED

DISTRICT 1—Operation: F. N. Haines, Forest Supervisor, Blackfeet National Forest.

DISTRICT 3—Operation: Arthur M. Neal, Forest Supervisor, Alamo National Forest; Oliver F. Bishop, Forest Assistant.

RESIGNED

PRODUCTS—Laboratory: Leslie Lamm, Laboratory Helper.

DISTRICT 2—Operation: John E. Stephens, Deputy Forest Supervisor, Medicine Bow National Forest; L. Besley, Forest Planting Assistant, Nebraska National Forest. Silviculture: Wilmer C. Bennett, Lumberman, Arapaho National Forest.

DISTRICT 4—Albert T. Mitchelson, Constructing Engineer.

DISTRICT 6—Operation: Bartle T. Harvey, Forest Assistant, Whitman National Forest. Grazing: Howard K. O'Brien, Assistant District Forester.

APPOINTMENT TERMINATED

FORESTER—Dendrology: Chas. H. Herty, Expert.

GRAZING—Chas. E. Fleming, Plant Ecologist.

SUSPENDED

DISTRICT 1—Operation: Dwight Bushnell, Forest Supervisor, Helena National Forest.

SEPARATED

DISTRICT 4—Operation: Assistant Forest Rangers—Fred H. Betts and Bailey O. Dustin, Idaho National Forest; Leroy Lindsay, Pocatello National Forest.

DISMISSED

DISTRICT 4—Operation: Will H. Tremewan, Assistant Forest Ranger, Nevada National Forest.

DISTRICT 6—Operation: Guy M. Ingram, Forest Supervisor, Fremont National Forest.

With deep regret announcement is made of the death of Amos Hedricks, Forest Planting Assistant, on the Pecos National Forest.

SERVICE NOTES FOR JANUARY

These notes contain instructions and necessary information for Forest officers, and will therefore be carefully read and kept on file for reference.

LAW

As to Authority to Sell Timber from Unsurveyed School Sections—

On December 5, 1910, the United States Circuit Court for the District of Idaho rendered a decision sustaining the demurrer to the defendant's answer in the case of the United States *v.* the Bonners Ferry Lumber Company, Limited, for the recovery of the value of timber cut under a sale from the State of Idaho from an unsurveyed school section within the boundaries of the Pend Oreille National Forest. Two lines of this section had previously been identified by the survey of the adjoining townships. In this decision the court holds that prior to official survey the State has no authority to sell timber from unsurveyed land which upon survey will probably be included in section 16 or 36.

Mining Claim Does Not Permit Operation of Saloon on Location—

On November 16, 1910, in the District Court of the United States for the District of Idaho, the defendants in the cases of United States *v.* Basil and Charles Rizzinelli, United States *v.* Frank Hopkins and William Keller, and United States *v.* Lee Setser and William Lynch, entered pleas of guilty, and the court imposed a fine of $200 in each case. These prosecutions were brought on a charge of the operation of saloons upon the Coeur d'Alene National Forest in violation of the rules and regulations of the Secretary of Agriculture applicable thereto. In the Rizzinelli case, the defendants had previously demurred to the indictment, and this demurrer was thereupon overruled by the court on August 24, 1910, in an opinion holding that the location of a mining claim on a National Forest gives the right to the possession of such claim for the purposes of mining only, and that the conducting thereon of a business wholly unconnected with the development of the claim, and in violation of the regulations of the Secretary of Agriculture, promulgated for the protection of the Forests, was contrary to law. When the cases were called for trial, the defendants entered pleas of guilty, as above noted.

Grazing Trespass: Indictments Returned—

In October the Grand Jury at Sioux Falls, S. Dak., returned indictments against William McKean and three herders in his employ—Dennis Cremin, Thomas Broderick, and John Matson—for grazing sheep in trespass on the Black Hills (North) National Forest. William McKean was released on bond of $1,000, the herders' bonds being placed at $500.

Timber Trespass: Criminal—

On November 29, J. H. Neal was arrested for cutting unmarked merchantable timber on the Leadville National Forest not included in a sale to him and was brought before the United States Commissioner at Denver and bound over to the Grand Jury. He was released on $100 bail.

Injunction—

On October 29, Judge Lewis, in the Circuit Court of the United States for the District of Colorado, granted a temporary restraining order against the Telluride Power Company, of Telluride, Colo., enjoining the construction of a ditch across the Montezuma National Forest without permit. By agreement of counsel the temporary restraining order remained in effect pending the final decision of the court as to the right of the Government to require such permit. By agreement the case will be submitted to the court on an agreed statement of facts.

Fire Trespass—

The sum of $6,791.90 has been deposited with the Secretary of the Treasury by the Chicago, Burlington and Quincy Railroad in settlement of a suit begun June 3, 1910, for the recovery of timber and young growth injured and destroyed on the Black Hills National Forest in 1908 by a fire set by the engines of the Railroad Company. This sum includes special damages on account of services of officers and enlisted men in fighting the fire and $41.90 as costs in the case.

Timber Sale: United States Intervener—

The United States Attorney for the District of South Dakota has been authorized by the Attorney General to appear for and represent James Berryman, a timber-sale purchaser of certain timber on the Black Hills National Forest, in a suit brought against him by James Brodie, a mineral claimant, on whose claim part of the timber sold to Berryman was located. The timber sold to Berryman was fire-killed. Brodie brought suit against Berryman for the value of the manufactured form of the timber taken from his mining claim.

Indicted for Fire Trespass—

At the October term of the District Court of the United States for the District of Oregon the Grand Jury indicted Taylor Bailey and Dol Moore, of Gold Hill, Oreg., for setting fire on the Crater National Forest. They were promptly arrested by the United States Marshal and subsequently released, bail being furnished in the sum of $750.

OPERATION

Political Activity, and Political Assessments or Contributions—

In General Order No. 142, dated October 1, 1910, the Secretary of Agriculture called attention to the following rules and regulations of the Civil Service Commission pertaining to partisan political activity or political assessments or contributions by officeholders, and enjoining all employees of the Department to adhere strictly thereto:

1. Political Activity.—Rule I, section 1, of the Civil Service Rules reads as follows:

> No person in the executive civil service shall use his official authority or influence for the purpose of interfering with an election or affecting the result thereof. Persons who by the provisions of these rules are in the competitive classified service, while retaining the right to vote as they please and to express privately their opinions on all political subjects, shall take no active part in political management or in political campaigns.

The first sentence of the rule applies to every person in the executive civil service, irrespective of the method of his appointment. The second sentence of the rule applies to all persons holding positions in the competitive classified service, whether the appointment be permanent or temporary in character, and by departmental action has also generally been made applicable to unclassified laborers.

The following forms of activity have been held to be forbidden by this provision: Service on political committees; service as delegates to State, county, or district conventions of a political party, although it was understood that the employees were not "to take or use any political activity in going to these conventions or otherwise violate the civil-service rules;" service as officer of a political club, as chairman of a political meeting, or as secretary of an antisaloon league; continued political activity and leadership; activity at the polls on election day; the publication or editing of a newspaper in the interests of a political party; the publication of political articles bearing on qualifications of different candidates; the distribution of political literature; holding office in a club which takes an active part in political campaigns or management; making speeches before political meetings or clubs; activity in local-option campaigns; circulation of petitions having a political object, of petitions proposing amendments to municipal charter, of petitions favoring candidates for municipal offices, and of local-option petitions; candidacy for or holding of elective office; accepting nomination for political office with the intention of resigning from the competitive service if elected; recommendation by clerks and carriers of a person to be postmaster; service as a commissioner of election in a community where it was notorious that a commissioner of election must be an active politician; service as inspector of election, ballot clerk, ballot inspector, judge of election, or member of election board; or generally any form of activity in political management or political campaigns, though not specifically mentioned above.

Inasmuch as the issuance of a certificate for reinstatement is discretionary with the Civil Service Commission, no certificate will be issued in any case where the party applying for reinstatement has previously resigned with a view of running for office, or with a view of indulging in a degree of political activity which would be prohibited if he had remained in the service, and who afterwards, having failed in his candidacy or having indulged in the contemplated activity, seeks reinstatement.

2. Political Assessments or Contributions.—The Civil Service Act provides that "no person in the public service is for that reason under any obligations to contribute to any political fund, or to render any political service, and * * * he will not be removed or otherwise prejudiced for refusing to do so." Section 118 of the Criminal Code provides that no Federal officer or employee shall, directly or indirectly, solicit or receive, or be in any manner concerned in soliciting or receiving any political assessment, subscription, or contribution from any other Federal officer or employee. Section 120 of the Criminal Code prohibits the discharge, promotion, or degrading of any officer or employee for giving or failing to make any political contribution. Section 121 of the Criminal Code prohibits any Federal officer or employee from making any such political contribution to another Federal officer or employee, and Section 119 prohibits the solicitation or receipt of any political contribution in any room or building occupied in the discharge of official duties by any officer or employee of the United States, or on other Federal premises, by any person

whatsoever, whether in the public service or not. In connection with this latter provision, the United States Supreme Court has held that a solicitation by letter or circular addressed and delivered by mail or otherwise to an officer or employee of the United States at the office or building in which he is employed in the discharge of his official duties, is a solicitation within the meaning of the law, the solicitation taking place where the letter was received. Section 122 of the Criminal Code provides that whoever shall violate any provision of the four sections above mentioned shall be fined not more than $5,000, or imprisoned not more than three years, or both.

It is the duty of the Civil Service Commission to see that the Civil Service Act and Rules and the above-mentioned sections of the Criminal Code, which were originally enacted as a part of the Civil Service Act, are strictly enforced, and it will employ every legitimate and available means to secure the prosecution and punishment of persons who may violate them. The Commission requests any person having knowledge of any such violation to lay the facts before it that it may at once take action thereon.

Changes in Boundaries and Areas—

Proclamations and Executive orders have been signed changing National Forest boundaries as follows:

In District 2 the proclamations of December 16 eliminated 12,100 acres from the Holy Cross Forest, Colo., and transferred 680 acres from it to the Sopris. No other change was made in the Sopris. From the Sundance Forest, Wyo., 4,907 acres were eliminated.

In District 3 the proclamation of October 7 eliminated 81,081 acres from and added 132,925 acres to the Prescott Forest, Ariz. The proclamation of October 13 eliminated 360 acres from and added 1,204 acres to the Wichita, Okla. The proclamation of October 20 eliminated (effective January 1, 1911) 245,450 acres from and added 22,333 acres to the Alamo, N. Mex. The proclamation of December 28 eliminated 563,331 acres from and added 40 acres to the Ozark, Ark.

In District 4 the proclamations of October 7 added 2,540 acres to the Ashley and 37,205 acres to the Uinta, Utah, and transferred 16,960 acres from the Ashley to the Uinta and 49,920 acres from the Uinta to the Ashley. The Executive order of November 25 transferred 38,318 acres in Nevada from the Mono to the Toiyabe, and the proclamation of December 10 eliminated 65,755 acres from and added 311,793 acres to the Toiyabe. The proclamation of December 23 eliminated 2,560 acres from and added 93,730 acres to the Sevier, Utah. The proclamation of December 24 eliminated 9,940 acres from the Boise, Idaho.

In District 5, in California, the proclamations of October 12 eliminated 58,732 acres from and added 4,784 acres to the California, and eliminated 3,084 acres from and added 6,870 acres to the Stanislaus. The proclamation of November 3 added 48,718 acres to the Klamath. The proclamation of November 25 eliminated 108,920 acres from the Angeles. The proclamation of December 12 eliminated 21,597 acres from and added 7,690 acres to the Monterey. The proclamations of December 16 eliminated 22,878 acres from and added 2,710 acres to the Cleveland; eliminated 167,608 acres from and added 26,787 acres to the Shasta, and also transferred from the latter Forest 30,227 acres to the Trinity and eliminated 38,574 acres from and added 50,034 acres

to the Trinity. The proclamation of December 23 eliminated 70,967 acres from and added 182,050 acres to the Modoc. The proclamation of December 30 eliminated 6,107 acres from and added 38,709 acres to the Lassen.

In District 6 the Executive order of October 28 eliminated 12,800 acres from the Chugach, Alaska. The proclamation of December 10 eliminated 17,610 acres from the Chelan, Wash.

There were no changes in District 1.

Service Uniform—

The contract with The Fechheimer Brothers Company, of Cincinnati, Ohio, for the Service uniform has been renewed for the calendar year 1911. A supply of the circulars will be sent each District Forester describing each article of the uniform and stating the price covered in the contract. An initial supply of these circulars will be sent each supervisor from the District office, and additional copies may be secured later upon request to the District Forester. Rangers and guards desiring copies of these circulars will secure them upon request to their supervisors.

Employees Killed or Injured in Forest Fires—

In connection with fighting forest fires during the past summer, 79 employees of the Forest Service were killed in District 1, and 124 were injured. In District 6 one Forest Service employee was killed and one injured.

Maximum Sum for Horse Feed—

The regulation concerning the purchase of horse feed, approved by the Secretary of Agriculture June 27, 1910, should be interpreted to mean that $100 is the maximum amount which may be allowed any Forest officer during any fiscal year for the purpose specified in the regulation.

LANDS

Lands: Water-Power Permits—

On December 28 the Secretary of Agriculture approved the new regulations, forms, and procedure relating to the acquisition of water-power permits within National Forests. These documents are now in the hands of the Public Printer and will be issued in pamphlet form as a separate section of The Use Book, similar in style to the Grazing Section, which has already been issued. Copies will be sent to the District Foresters as soon as possible. A complete set of the new forms will also be available upon requisition to the Property Clerk.

Relative Preference Rights to Listed Lands—

(Circular Letter of November 8, 1910.)

On page 68 of the October Field Program was published an extract of a decision of October 6 by the Commissioner of the General Land Office in a letter to J. S. Todd, Whittier, Cal., holding that applicants under the Act of June 11, 1906, for lands which were subsequently eliminated by proclamation of the President would be given a preference right of entry when the lands were declared open to settlement and entry. The Secretary of the Interior, by letter of November 1 to the Commissioner of the General Land Office, a copy of which was sent each District Forester, reversed the ruling of the Commissioner, and has decided that the Interior Department is not

authorized, in view of the language of the President's proclamation, to award preference rights of entry to those upon whose application certain lands now to be restored were listed for settlement and entry under the Act of June 11, 1906, and where, as a matter of fact, the lands were not actually open to entry under the said Act prior to their elimination from the National Forest. The Secretary's decision infers that only persons who have actually occupied or are occupying the lands will be given preference rights of entry when the restored areas are restored to the public domain and open to settlement and entry.

In response to the telegram of October 27 the District Foresters have submitted a list of the names of applicants, the numbers of the lists, and the land districts in which the lands are situated, so that the Commissioner of the General Land Office might instruct local land officers to give preference rights of entry to the applicants named in the lists. The telegram of November 5 informed the District Foresters of the Secretary's decision and they were instructed to inform applicants who had been told that they would have a preference right that the Secretary had reversed the Commissioner's decision and that, as a matter of fact, they would have no preference right. Field officers should tell not only persons who have been erroneously informed but should also notify all others who might be affected by the Secretary's ruling. There probably are some lands among those restored areas which are now being advertised for entry under the Act of June 11, 1906, where the applicants are not residing upon the tract. It is suggested that the field officers also notify them and any other person who applied for lands there, but who has not as yet made entry.

Instructions Under Claims Cooperation Agreement of Nov. 25, 1910—

(Circular letter of December 29, 1910.)

Under the joint letter of instructions from the Secretary of the Interior and the Secretary of Agriculture, dated November 25, the following procedure will be observed:

Reports—Supervisors should submit to the District Forester one original and two copies of all reports, supplemental reports, and affidavits prepared and obtained in claims cases. In no case will a report be forwarded to the Forester except where there is a difference of opinion between the District Forester and the District Assistant to the Solicitor, as provided for in the joint letter. The District Forester will, when he submits the original report to the Chief of Field Division, in accordance with the joint letter of November 25, attach one copy to be used as a file copy by the Chief of Field Division.

Requests for Reports by Commissioner of the General Land Office—When a request for a report on a claim is received from the Commissioner it will be forwarded by the Forester to the District Forester and no record will be kept in the Forester's office. No reply will be made to the Commissioner, either by the Forester or District Forester.

When the Commissioner's request is received by the District Forester, if a report has already been submitted to the Interior Department, he will write the Chief of Field Division, with appropriate reference to the Commissioner's letter of request, stating the date upon which the report was forwarded.

If, at the time the Commissioner's request is received by the District Forester, no report has been transmitted by him, he will ascertain from the Forest Supervisor the date when the report can be expected and will then write the Chief of Field Division with appropriate reference to the Commissioner's request, and inform him of the date on or before which the report will be transmitted. In these cases a promise card will be made by the District Forester and filed under the date noted in the letter to the Chief of Field Division as the final date of transmission of report. If the report is not received by the District Forester by that date, he will ascertain from the supervisor as to when it will be received and will send a second letter to the Chief of Field Division, noting a new date on or before which the report will be transmitted.

If the Commissioner's request for report covers a claim which is outside a National Forest, or is within a proposed elimination, and no report has been made by the supervisor, the District Forester will send a letter in duplicate to the Chief of Field Division, with appropriate reference to the Commissioner's request, stating that the claim is outside the Forest or within a proposed elimination, and that no report will be made by the Forest Service.

In all cases the reports, where submitted subsequent to the receipt of the Commissioner's request, will contain appropriate reference to the Commissioner's letter.

All letters to the Chief of Field Division, with reference to reports requested by the Commissioner, will be prepared with an extra copy to be sent to the supervisor.

Indorsements of Final-Proof Notices—In letter of December 14 from the Secretary of the Interior to the Secretary of Agriculture it is stated that the necessary instructions to Registers and Receivers would be issued so that notices of final proof in land cases would be sent to the Forest supervisor in triplicate. A copy of this letter was inclosed with "L, Service, Claims" letter of December 19.

When the supervisor receives the notices he will furnish a copy to the ranger or other Forest officer who is to make the report, retain one copy for his files, and return one copy to the Register and Receiver with the proper indorsement, in accordance with instructions in "L, Service, Claims" letter of December 13. The indorsements will be dated and signed by the supervisor or acting supervisor, and the copy of the final-proof notice retained by the supervisor will be completed by entering the indorsement which was used on the copy returned to the Register and Receiver.

Besides the regular indorsements as given in "L, Service, Claims" letter of December 13, the following indorsements will be used when the claim is outside the Forest or within a proposed elimination and no report has been made:

> "The land involved is not within the boundaries of a National Forest, and no report will be made by the Forest Service."
>
> "The land involved is located within a proposed elimination from the ——— National Forest, and no report will be made by the Forest Service."

When either of the above indorsements are used by a Forest supervisor one copy will be returned directly to the Register and Receiver and two copies sent to the District Forester. Upon receipt of these copies the District Forester will send one copy to the Chief of Field Division, with the notation, dated and signed by him, that for the reason given in the supervisor's indorsement no report will be transmitted.

INDORSEMENTS OF NOTICES OF APPLICATION FOR MINERAL PATENT—When the Forest supervisor receives from the Register and Receiver copies of the notice of publication of application for mineral patent he will use the same indorsements as in the case of final-proof notices for homestead entry, and will be guided by the instructions outlined in "L, Service, Claims" letter of December 13 and paragraph "Indorsements of Final-Proof Notices" in this letter.

FAILURE TO RECEIVE NOTICES—In cases where the supervisor fails to receive final-proof notice or notice of application for mineral patent at or soon after the beginning of the period of publication, he will report this to the District Forester in order that the latter may, if he considers it advisable, bring it to the attention of the proper Chief of Field Division.

Final-Proof Notices and Requests—

Final-proof notices and requests for report from the Commissioner of the General Land Office on homestead entries under the Act of June 11, 1906, should be returned to the Chief of Field Division indorsed "the Solicitor, Department of Agriculture, holds that Forest Service has not authority to examine and report upon claims of this character."

Modification in Indorsement of Final-Proof Notices—

(Circular Letter of December 13, 1910.)

The change in Claims procedure resulting from the joint order of the Secretary of the Interior and the Secretary of Agriculture, signed November 25, necessitates a slight modification in the indorsement of final-proof notices. The indorsements to be used in the future by supervisors when returning copies of final-proof notices to Registers and Receivers will be either—

(*a*) "No objection at this time to issuance of final certificate—right in law to future contests not waived should facts develop warranting charges; report submitted (or will be submitted) in due course to the District Forester."

(*b*) "Protest; report submitted (or will be submitted) in due course to the District Forester."

Copies of final-proof notices must be returned by the Forest supervisors to Registers and Receivers in each case prior to the date advertised for submission of final proof. In the report submitted to the District Forester reference will be made to the notice of final proof, the indorsement made, and the date thereof, which will be the date of the return of the notice to the Register and Receiver.

It is desired that reports be obtained by the supervisor prior to the return of the final proof notice, and supervisors should be instructed to hold the notices whenever possible until reports have been received on the claims, and then to use the proper indorsement and return the notice in sufficient time so that it will reach the Register and Receiver prior to the date of final proof.

In cases where it is impossible for the supervisors to secure a report on the claim during the period of advertising, he should return the notice after he is certain that a report can not be secured before the date of proof, using indorsement (*a*), unless he has information at hand which would warrant the use of indorsement (*b*).

It is greatly to be desired that supervisors secure reports promptly, so that cases in which return is made before the supervisor receives report will be very few.

In view of the recent opinion of the Solicitor regarding the status of lands listed under the Act of June 11, it may be necessary to employ a special indorsement for entries of land listed under that Act, and if such change is determined upon, the District Forester will be immediately informed.

Revised Claims Cooperative Agreement—

To the Commissioner, Chief of Field Service, Chiefs of Field Division, Registers and Receivers, General Land Office, Department of the Interior; the Forester, District Foresters, Forest Supervisors, Forest Service, Department of Agriculture; the Solicitor and District Assistants to the Solicitor, Department of Agriculture.

Gentlemen: To better effectuate cooperation in protecting the interests of the Government and settlers and other claimants to lands within National Forests, the following order is effective, superseding order of June 25, 1910:

1. Forest supervisors will submit all reports made by Forest Officers to the proper District Forester, who will make a careful examination of them.

If the District Forester is of the opinion that no contest should be instituted he will transmit the report directly to the proper Chief of Field Division with an indorsement of "No protest," except that in the case of claims under the mining laws which have not been examined for mineral discovery, the notice of "No protest" will be by letter from the District Forester to the Chief of Field Division, instead of by the transmittal of an indorsed report. Should the Chief of Field Division desire further information he will return the report directly to the District Forester, requesting such additional investigation as may be necessary; or, if he deems it advisable, he will cause an Agent of the General Land Office to make such additional investigation. If the Chief of Field Division is of opinion that no hearing is necessary, he will transmit the report, or the letter of "No protest," to the Commissioner of the General Land Office with his recommendations.

If the District Forester is of opinion that a contest should be instituted he will refer the report to the District Assistant to the Solicitor for examination as to the sufficiency of law and evidence, and if found to be sufficient he will return it to the District Forester with a draft of the charges against the claim to be recommended to the Chief of Field Division. If the District Assistant to the Solicitor is of opinion that additional evidence is necessary, he will call this to the attention of the District Forester, who will order such additional investigation as may be required and will resubmit the report with the additional evidence to the District Assistant to the Solicitor, who, if then satisfied that a contest should be instituted, will pursue the course outlined above. When the final report, with the draft of charges to be recommended to the Chief of Field Division, is returned to the District Forester by the District Assistant to the Solicitor, the District Forester will transmit it directly to the Chief of Field Division with a recommendation that a contest be instituted upon the charges indicated. If the District Assistant to the Solicitor, after full review of the final report, is of opinion that a contest should not be instituted, he will so advise the District Forester, and if the latter is still of opinion that a contest should be instituted, the papers in the case will be referred to the Forester for consultation with the Solicitor

and, if need be, for submission to the Secretary of Agriculture, and, after decision, the papers will be returned by the Forester to the District Forester with notice of decision and appropriate instructions. Should the Chief of Field Division find the report, in his opinion, insufficient to warrant adverse proceedings, he will return it directly to the District Forester, requesting such additional investigation as may be necessary; or, if he deems it advisable, he will cause an Agent of the General Land Office to make such additional investigation. If, after receipt of the complete report, the Chief of Field Division is of opinion that adverse proceedings should be ordered, he will transmit the report, together with the District Forester's letter of recommendations, to the Commissioner of the General Land Office with a letter of transmittal recommending the ordering of a hearing before the Register and Receiver upon the charges suggested by him and noted in his letter of transmittal. If, after receipt of complete report from the District Forester recommending adverse proceedings, the Chief of Field Division is of opinion that a hearing is unwarranted, he will transmit the report, the District Forester's letter of recommendations, and his own recommendations to the Commissioner of the General Land Office for decision. Should the Commissioner of the General Land Office approve the recommendations of the Chief of Field Division, he will notify the Solicitor of the Department of Agriculture.

2. Upon order or application for hearings upon reports covering lands or claims within a National Forest the Register and Receiver will send duplicate notices thereof to the Chief of Field Division and the proper District Assistant to the Solicitor. Before setting date for the hearing in any such case the Chief of Field Division will confer with the proper District Assistant to the Solicitor and thereupon suggest to the Register and Receiver a date for hearing and the names of witnesses to be subpœnaed upon behalf of the Government. In the event the Chief of Field Division and the District Assistant to the Solicitor are unable to agree as to the date of hearing, the matter will be referred by the Chief of Field Division to the Commissioner of the General Land Office, who will issue the necessary directions.

3. In all hearings affecting lands or claims within a National Forest the Chief of Field Division or a Special Agent of the General Land Office and the District Assistant to the Solicitor, will be entered of record as appearing on behalf of the Government. The Chief of Field Division or Special Agent of the General Land Office, acting as attorney for the Government in any such case, will control the Government's side of the case in any matter as to which counsel are unable to agree, subject to any direction that may be given by the Commissioner of the General Land Office, in case the matters of difference are of such importance as to be presented to him for action.

4. In all Government cases before Registers and Receivers involving lands or claims within a National Forest the Chief of Field Division and the District Assistant to the Solicitor shall each be served with notice of all appeals, motions, orders, and decisions required to be noted under the rules in cases of private contests. The proper Law Officers of the Department of Agriculture shall also have a right of appeal from any decision by the Commissioner of the General Land Office and to file motion for review in the Department, or to take other like action in the same manner as a private contestant, and shall receive like notices of proceedings and decisions: *Pro-*

vided, however, That the Department of Agriculture shall not be required to take formal appeals from decisions of Registers and Receivers.

5. Costs incident to hearings before Registers and Receivers in Government cases involving lands or claims within a National Forest will be paid under rules now in force. Expenses incident to appeals will be paid by the Department of Agriculture; except that, where feasible, Chiefs of Field Division may give aid in office work in preparation of papers, briefs, etc.

Very respectfully,

(Signed) R. A. BALLINGER,
Secretary of the Interior.
(Signed) JAMES WILSON,
Secretary of Agriculture.

WASHINGTON, D. C., *November 25, 1910.*

Lands Reconveyed to the United States Under a Lieu Selection—

On October 15, 1910, the Secretary of the Interior held, in the case of Otto Liebel, List 5-438, Sequoia National Forest, which involved lands reconveyed under a lieu selection of unsurveyed lands, that the listed land could not at this time be opened to entry because, although the lieu selection had been approved for patent by the Commissioner of the General Land Office, it has not yet been patented to the selector, the selected lands being still unsurveyed. Until the selection is patented, the reconveyed lands are not subject to disposal. This ruling was based on the decision of April 21, 1910, by the Interior Department in the case of Rosa Rupp, Seattle, 0711.

Correspondence with Other Bureaus—

The Secretary of Agriculture on December 17 authorized the Forester, and under his instructions the District Foresters, to reply directly to chiefs of other bureaus and to initiate correspondence with them in regard to purely routine matters that are not legal in character modifying accordingly the instructions in the January, 1909, Field Program, pages 218 and 219. By letter (AF-Supervision) of December 19, District Foresters were instructed to prepare all such correspondence for the signature of the Forester, unless at some future time they are specifically authorized by the Forester to sign certain classes of correspondence with other bureaus.

SERVICE PUBLICATIONS ISSUED IN OCTOBER, NOVEMBER, AND DECEMBER.

Bulletin 36—The Woodsman's Handbook (enlarged and revised).
Bulletin 83—The Forest Resources of the World.
Circular 89—Tamarack (revised).
Circular 179—Utilization of California Eucalypts.
Report of the Forester for 1910.

CUMULATIVE INDEX SERVICE NOTES AND ORDERS

(JULY–OCTOBER)

[Numbers in parentheses after the month indicate page]

Act of June 11, 1906, application, conflict of mining claim with; October (67).
Atlas folios, correcting; October (64).
requests for binding; October (64).

Boundaries and areas, changes in; July (33); October (64).

Carbons sent for information, omission of initialing on; October (64).
Chaparral, California, regarding nomenclature of; October (61).
Claims, cases, procedure in the conduct of; July (35); October (66).
conflict of mining, with a June 11, 1906, application; October (67).
relinquishment of; October (67).

Damages for destruction of young growth awarded; October (61).
measure of, in innocent timber trespass case; October (62).
Dendrological specimens, full data with; October (61).

Examination of Forest homestead applications; July (38).

Field Program to be published quarterly; July (32).
Final proof notices, disposition of; October (68).
Fire trespass case, complaint filed; October (62).
Forage plants, identification of grasses and; July (35).
Form 2, revised, to supplant Form 143; July (33).
143, supplanted by Form 2, revised; July (33).
321, discontinued; July (34).
321a, originated; July (34).
322, revised; July (34).
323, revised; July (34).
861 and 861-G, revised; July (32).
979, requisitions for; July (34).
Fountain pens at Ogden; October (63).

General Order 140 of Secretary of Agriculture; July (32).
Grasses and forage plants, identification of; July (35).
Grazing trespass, arrested for; October (63).
case settled; October (63).
settlement; July (32).

Homestead applications, examination of Forest; July (38).

Identification of grasses and forage plants; July (35).
Initialing, omission of, on carbons sent for information; October (64).
Insect infestation, letters on; July (34).

Lands, effect of eliminations upon listed; October (68).
Letters, papers to accompany drafts of list; October (68).

National Forests, changes in boundaries and areas of; July (33); October (64).

Papers to accompany drafts of list letters; October (68).
Pay-roll forms, revision of; July (33).
Preparation of papers, care in; July (34).
Proclamations and diagrams, distribution of; October (65).
supplies of; October (65).

Reconnaissance forms; July (34).
Refunds in supposed timber-trespass cases; October (62).
Requisitions for Form 979; July (34).
Reward, notice of; October (69).

Saloon location, mining claim does not permit; October (62).
Settlement: Effect of eliminations upon lands listed; October (68).
Settlers on restored areas; July (38).
Signs, making and posting of; October (63).
Solicitor, duties of, in connection with Forest Service; July (32).

Transportation requests; July (33).
Trespass case, fire, complaint filed; October (62).
cases, measure of damage in innocent; October (62).
refunds in supposed; October (62).
grazing, arrested for; October (63).
case of U. S. *v.* Joe Calscarta; October (63).
Anestaria Gabiala; October (63).
settled; October (63).
settlement of, by Diteman and Rennie; July (32).
Ware for camp use, tin or granite; October (63).

Do Not Remove

Walter Mulford

Issued April 15, 1911.

UNITED STATES DEPARTMENT OF AGRICULTURE
FOREST SERVICE

HENRY S. GRAVES, Forester

April Field Program, 1911

This program of field work and assignments in the Forest Service is issued quarterly on the fifteenth day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed and reference to projects for which plans have not been matured are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

OFFICE OF THE FORESTER

HENRY S. GRAVES, Forester.
ALBERT F. POTTER, Associate Forester.

HERBERT A. SMITH, Editor; GEORGE B. SUDWORTH, Dendrologist; EUGENE S. BRUCE, Expert Lumberman; D. D. BRONSON, General Inspector.

ACCOUNTS

Division of Accounts and Disbursements (Forest Service Branch).

M. E. FAGAN, Chief of Office of Accounts; E. A. MELZAR, Assistant Chief.

OPERATION

JAMES B. ADAMS, Assistant Forester, in charge; GEORGE G. ANDERSON, Assistant in Office Methods.

GEOGRAPHY—FRED G. PLUMMER, Chief.

ATLAS—G. B. BRUCE.

DRAFTING—C. A. KOLB.

PHOTOGRAPHY—A. G. VARELA.

MAINTENANCE—GEORGE A. BENTLEY, Chief.

SILVICULTURE

WILLIAM T. COX, Assistant Forester, in charge.

STATE COOPERATION—J. G. PETERS, Chief; J. H. FOSTER, Assistant Chief.

CONNECTICUT—Preparation of report on second-growth hardwoods, in cooperation with the State Forester—E. H. Frothingham.

NORTH CAROLINA—Preparation of report on forest conditions, in cooperation with State Geological and Economic Survey—J. S. Holmes, Chapel Hill.

TENNESSEE AND KENTUCKY—Preparation of report on forest conditions—R. C. Hall, Washington, D. C.

Study of second-growth hardwoods in eastern Tennessee, in cooperation with State Geological Survey—W. W. Ashe, Washington, D. C.

NORTHEASTERN STATES—Preparation of report on forest conditions on watersheds of Allegheny and Monongahela Rivers, in cooperation with Pittsburg Flood Commission—J. H. Foster, Washington, D. C.

SOUTHERN STATES—Study of Appalachian species, with special reference to yield of second-growth stands—W. W. Ashe and E. D. Clark, Washington, D. C.

Study of the relation of forest taxation to forestry and to the future timber supply—Fred. R. Fairchild, New Haven, Conn.

SILVICS—RAPHAEL ZON, Chief; S. T. DANA, Assistant Chief.

Forest regions of the United States with special reference to the laws of their distribution—Raphael Zon.

Fundamental laws of tree growth—Raphael Zon.

Comparative rapidity of growth of forest trees—W. B. Barrows.

Results of seeding and planting in the East—S. T. Dana.

Study of factors influencing seed production—C. R. Tillotson.

Seed testing and storage experiments—C. R. Tillotson.

Study of the eastern ashes—E. H. Frothingham.

Basket-willow investigations—G. N. Lamb.

Willows: Their economic uses and culture—G. N. Lamb.

Preparation of Silvical Leaflets—

LIBRARY—MISS H. E. STOCKBRIDGE.

FOREST MANAGEMENT IN THE EAST—W. W. ASHE, Acting in Charge.

SOUTHERN STATES—Preparation of report on cottonwood in second-growth stands in the Mississippi Valley—A. W. Williamson, Washington, D. C.

Preparation of report on forest management of loblolly pine—W. D. Sterrett, Washington, D. C.

Examination of private forest lands—W. W. Ashe, Washington, D. C.

Forest management of hardwood bottom lands—A. W. Williamson, Washington, D. C.

NORTHEAST—Preparation of report on red spruce in second-growth stands—L. S. Murphy, Washington, D. C.

Remeasurement of permanent sample plots—W. D. Sterrett and party.

Preparation of forest-planting leaflets.

MEASUREMENTS—L. S. MURPHY, in charge.

GRAZING

A. F. POTTER, Associate Forester, in charge; L. F. KNEIPP, Assistant Forester; WILL C. BARNES, Inspector of Grazing.

Forage investigations; compilation of data—F. V. Coville, Botanist, Bureau of Plant Industry, in charge, Washington, D. C.; investigation of methods of range control and restoration of overgrazed ranges, James T. Jardine, Inspector of Grazing, Ogden, Utah; Arthur T. Sampson and William A. Dayton, Plant Ecologists, Washington, D. C. (detailed to Bureau of Plant Industry under instructions of F. V. Coville, Botanist).

LANDS

JAMES B. ADAMS, Assistant Forester, in charge; O. C. MERRILL, Chief Engineer; F. H. FOWLER, Engineer.

OCCUPANCY—CHARLES H. SQUIRE, in charge.

CLAIMS—J. I. PARKER, in charge.

PRODUCTS

WM. L. HALL, Assistant Forester, in charge, Washington, D. C.

FOREST PRODUCTS LABORATORY—(In cooperation with the University of Wisconsin, Madison, Wis.) MCGARVEY CLINE, Director; H. S. BRISTOL, Assistant Director; HOWARD F. WEISS, Assistant Director.

MAINTENANCE—WM. H. KEMPFER, in charge.

CHEMISTRY—E. BATEMAN, in charge.

The classification of authentic creosotes according to their chemical and physical properties—E. Bateman.

Study of the production of ethyl alcohol from wood waste—F. W. Kressmann.

The investigation of specifications for gum turpentine—A. W. Schorger.

Experiments to determine the penetrance of caustic soda solution into aspen—F. W. Kressmann.

Standardization of commercial ground-wood pulp samples—E. Bateman.

Study of the oleo-resin of western yellow pine—A. W. Schorger.

ENGINEERING—ROLF THELEN, in charge.

Study of the modern sawmill—Rolf Thelen.

Study of the use of wood in gas producers—C. T. Barnum.

PULP AND PAPER—H. E. SURFACE, in charge.

Progress report on the various pulp woods tested previous to the establishment of the Forest Products Laboratory at Madison—H. S. Bristol.

Experiments to determine the suitability of jack pine for the production of chemical pulp—H. E. Surface.

Experiments to determine the suitability of tamarack for the production of chemical pulp—H. E. Surface.

Experiments to determine the suitability of mill waste from lumber mill of the Madera Co. (Ltd.), Madera, Chihuahua, Mexico, for the production of chemical pulp—H. E. Surface.

Experiments to determine the suitability of jack pine and eastern hemlock for the manufacture of ground-wood pulp—J. H. Thickens and G. H. McNaughton, Wausau, Wis.

Experimental study of the fundamental variable cooking conditions in the soda process—H. E. Surface.

TIMBER PHYSICS—H. D. TIEMANN, in charge.

Physical determination of the specific gravity and specific heat of wood substance—Frederick Dunlap.

The preparation of microscopic slides of the principal commercial woods in the United States—Miss Eloise Gerry.

Relations of the hygroscopic conditions of wood to temperatures and vapor pressures—H. E. McKenzie.

Tests to determine the strength of wood beams under continuously applied loads—H. E. McKenzie.

The analytical study of the artificial methods of drying wood in an experimental cylinder—H. D. Tiemann.

The effect of different methods of drying on the strength of wood (a report to be compiled from past records)—H. D. Tiemann.

Preparation of microscopic slides for standardization of wood-pulp samples—Simon Kirsch.

TIMBER TESTS—J. A. NEWLIN, in charge.

Standard tests on red oak, white oak, and ash—F. J. Hallauer; assistant, T. Lyons.

Effect of water solutions of bicarbonate of soda on the strength of shortleaf and longleaf pines—T. R. C. Wilson.

WOOD DISTILLATION—L. F. HAWLEY, in charge.

Refining and grading of wood turpentine—L. F. Hawley.

Experiments in distillation of resinous wood—L. F. Hawley; assistant, R. C. Palmer.

WOOD PRESERVATION—F. M. BOND, in charge.

Fungicidal properties of coal-tar creosote fractions—C. H. Teesdale.

The efficiency of various fractions of coal-tar creosote in protecting southern yellow pine from marine borers—C. H. Teesdale.

Service tests on red oak and maple crossties in cooperation with the Chicago, Milwaukee & St. Paul Railway Co. to determine the relative efficiency of standard preservatives and processes—F. M. Bond.

The relative resistance of commercial woods to injection with creosote—C. H. Teesdale and E. W. Peters.

Standard tests on the chemical, physical, fungicidal, and inflammable properties of various wood preservatives—L. Witt.

Standard tests upon the strength of loblolly pine to determine the effect of injecting various wood preservatives into it—L. Witt.

Experiments on mechanical operative features of pressure wood-preserving plants—C. P. Winslow and E. W. Peters.

PATHOLOGY (in cooperation with the Bureau of Plant Industry)—C. J. HUMPHREY, in charge.

Toxicity of preservatives with pure cultures—C. J. Humphrey.

Rate of decay of wood and the efficiency of various wood preservatives (fungus pit tests)—C. J. Humphrey.

Moisture per cents at various points in posts; also the effect of beveling the tops of posts—M. C. Jensen.

WOOD UTILIZATION—H. S. SACKETT, in charge, Fisher Building, Chicago, Ill.

[The figures in the studies below indicate the number of the project.]

Collection of wholesale lumber prices—Franklin H. Smith, Fisher Building, Chicago, Ill.

Study of woods which may be used as substitutes for the southern junipers in the manufacture of lead pencils (14)—H. S. Sackett, Fisher Building, Chicago, Ill.

Collection of statistics covering the use of preservatives in the United States during 1910 (15)—H. S. Sackett, Fisher Building, Chicago, Ill.

Study of the woods which may be used in the manufacture of bobbins and shuttles (16)—H. S. Sackett, Fisher Building, Chicago, Ill.

Study of the methods of hickory manufacture and utilization (21)—C. F. Hatch. Fisher Building, Chicago, Ill.

Study of the wood-using industries of Louisiana (28)—Hu Maxwell, Fisher Building, Chicago, Ill.

Study of the wood-using industries of Missouri (29)—C. F. Hatch, Fisher Building, Chicago, Ill.

Studies of the wood-using industries of Michigan (30)—Franklin H. Smith, Fisher Building, Chicago, Ill.

Study of the wood-using industries of Arkansas (31)—John T. Harris, Fisher Building, Chicago, Ill.

Study of the effect of freight rates on the disposition of low-grade lumber—H. S. Sackett, Fisher Building, Chicago, Ill.

Preparation of reports upon the uses of the principal commercial woods—Hu Maxwell, Fisher Building, Chicago, Ill.; W. L. Hall, Washington, D. C.

Study of the substitution of other materials for wood in various industries—Hu Maxwell, Fisher Building, Chicago, Ill.

Study of hardwood inspection rules—John T. Harris, Fisher Building, Chicago, Ill.

Study of the exports of forest products, with particular reference to the uses at point of destination—Hu Maxwell, Fisher Building, Chicago, Ill.

WASHINGTON OFFICE—O. T. SWAN, in charge.

Inspection and report on treated greenhouse timbers set in 1908 in cooperation with the Bureau of Plant Industry—O. T. Swan.

Preparation of revised working plan for collection of annual statistics of forest products in cooperation with the Census—A. H. Pierson.

Study of the wood-using industries of Virginia in cooperation with the State—R. E. Simmons.

Testing and improving experimental types of pole-treating plants in cooperation with the Public Service Corporation of New Jersey—O. T. Swan.

Preparation of report on the construction and operation of tannin extract plants—O. T. Swan.

ACQUISITION OF LAND UNDER THE WEEKS LAW

WM. L. HALL, Assistant Forester, in charge, Washington D. C.; Assistants, A. K. CHITTENDEN and CLYDE LEAVITT, Forest Inspectors.

Examination of land in the White Mountains—K. W. Woodward and E. D. Fletcher, Forest Examiners.

Examination of land in the Southern Appalachians—D. W. Adams, Lumberman, and Verne Rhoades, Forest Examiner.

DISTRICT 1

Montana, northeastern Washington, northern Idaho, northwestern South Dakota, northern Michigan, northern Minnesota, and southwestern North Dakota. Office Hammond Block, Missoula, Mont.

W. B. GREELEY, District Forester; F. A. SILCOX, Associate District Forester; E. W. KRAMER, District Engineer.

LAW—Office of the Solicitor (Forest Service Branch). W. C. HENDERSON, Assistant to the Solicitor, in charge (temporary); HAROLD H. CLARKE, Assistant to the Solicitor.

ACCOUNTS—JOHN A. URBANOWICZ, District Fiscal Agent.

OPERATION—J. P. MARTIN, Assistant District Forester.

MAINTENANCE, R. J. MOORE.

SILVICULTURE—R. Y. STUART, Assistant District Forester; O. M. BUTLER, Assistant District Forester.

TIMBER SALES, Assistant District Foresters in Silviculture; Austin Cary, Forest Expert, special detail.

MONTANA—Reconnaissance, Deerlodge National Forest—J. S. Baird, Lumberman, Anaconda; A. A. Saunders, L. C. Stockdale, C. L. Billings, R. T. Ferguson, and C. H. Edwards.

Compilation of data on fire trespass, Lewis and Clark National Forest—F. I. Rockwell and O. A. Benson, Missoula.

PLANTING, H. H. Farquhar, Forest Assistant, in charge.

SILVICS, F. I. Rockwell, Forest Assistant, in charge.

Yield tables, lodgepole stands—C. N. Whitney, Anaconda, Mont.

Yield tables, white-pine stands (compilation of data)—F. I. Rockwell, Missoula, Mont.

COOPERATION, Bureau of Entomology.

Location of insect-infested timber and determination of methods of local control—Josef Brunner, Field Agent, Bureau of Entomology, Columbia Falls, Mont.

GRAZING—C. H. ADAMS, Assistant District Forester.

LANDS—R. H. RUTLEDGE, Assistant District Forester; JOHN D. JONES, Assistant; C. E. MILES, Claims Examiner, Cœur d'Alene, Idaho.

PRODUCTS—P. R. HICKS, Engineer in Wood Preservation, on detail to the Forest Products Laboratory, Madison, Wis.

NATIONAL FORESTS

IDAHO

Beaverhead—See Montana.

Clearwater—F. A. Fenn, Forest Supervisor, Kooskia (WU-N); Edw. C. Thenon, Deputy Forest Supervisor; W. B. Willey, Forest Assistant.

Coeur d'Alene—W. G. Weigle, Forest Supervisor, Wallace (WU-Am); Roscoe Haines, Deputy Forest Supervisor; Charles A. Fisher, Deputy Forest Supervisor; W. W. Morris, Forest Assistant; C. H. Gregory, Lumberman.

Kaniksu—See Washington.

Nezperce—Geo. V. Ring, Forest Supervisor, Grangeville (WU-Am); J. Arthur Brown, Deputy Forest Supervisor.

Pend Oreille—J. E. Barton, Forest Supervisor, Sandpoint (WU-Am, N, W); James R. Gillis, Forest Assistant.

MICHIGAN

Marquette
Michigan —W. B. Piper, Acting Forest Supervisor, Au Sable (WU-Am).

MINNESOTA

Minnesota—G. E. Marshall, Forest Supervisor, Cass Lake (WU-Am, GN); J. St. J. Benedict, Forest Assistant.

Superior—J. A. Fitzwater, Forest Supervisor, Ely (WU-GN).

MONTANA

Absaroka—V. Gifford Lantry, Forest Supervisor, Livingston (WU-Am, N). John M. Bedford, Forest Assistant.

Beartooth—Glen A. Smith, Forest Supervisor, Billings (WU-Am, N).

Beaverhead—C. K. Wyman, Forest Supervisor, Dillon (WU-Am); George E. Martin, Deputy Forest Supervisor; Chas. R. Clark, Forest Assistant.

Bitteroot—W. W. White, Forest Supervisor, Missoula (WU-Am, N); M. N. Stickney, Deputy Forest Supervisor; Abbott B. Silva, Forest Assistant.

Blackfeet—J. F. Preston, Forest Supervisor, Kalispell (WU-Am, GN); R. P McLaughlin, Deputy Forest Supervisor; J. A. Larsen, Forest Assistant.

Cabinet—Ralph H. Bushnell, Forest Supervisor, Thompson Falls (WU-Am, N); Claude W. Griffin, Deputy Forest Supervisor.

Custer—Knox McAnally, Acting Forest Supervisor, Ashland (WU via Crow Agency-Am, N via Forsyth); Edgar F. White, Forest Assistant.

Deerlodge—D. T. Mason, Forest Supervisor, Anaconda (P-Am, N); F. M. Patton, Deputy Forest Supervisor; C. N. Whitney and A. A. Saunders, Forest Assistants.

Flathead—Page S. Bunker, Forest Supervisor, Kalispell (WU-Am, GN); John H. Clack, Deputy Forest Supervisor; J. L. Cobbs, Forest Assistant.

Gallatin—D. T. Conkling, Forest Supervisor, Bozeman (WU-Am, N).

Helena—J. B. Seely, Forest Supervisor, Helena (WU-Am, N); J. D. Warner, Deputy Forest Supervisor; Donald Bruce and Warren F. Hale, Forest Assistants.

Jefferson—Wallace S. Perrine, Forest Supervisor, Great Falls (WU-Am, N); Wellman Holbrook, Deputy Forest Supervisor.

Kootenai—DORR SKEELS, Forest Supervisor, Libby (WU-Am, GN); William A. Raymond, Deputy Forest Supervisor; Webster H. Ransom and William C. Latane, Forest Assistants.

Lewis and Clark—SCOTT LEAVITT, Forest Supervisor, Chouteau (WU via Collins-Am, GN via Collins).

Lolo—ELERS KOCH, Forest Supervisor, Missoula (WU, P-Am, N); Thos. C. Spaulding, Deputy Forest Supervisor; E. C. Clifford and Reuben P. Prichard, Forest Assistants.

Madison—CLIFTON W. HUDSON, Forest Supervisor, Sheridan (WU-Am, N).

Missoula—D. G. KINNEY, Forest Supervisor, Missoula (WU, P-Am, N); Rutledge Parker, Deputy Forest Supervisor; Richard C. Eggleston, Forest Assistant.

Sioux—See South Dakota.

NORTH DAKOTA

Dakota—C. A. BALLINGER, Forest Supervisor, Camp Crook, S. Dak. (WU via Bellefourche-Am via Bellefourche); Donald R. Brewster, Forest Assistant.

SOUTH DAKOTA

Sioux—C. A. BALLINGER, Forest Supervisor, Camp Crook (WU via Bellefourche-Am via Bellefourche); Donald R. Brewster, Forest Assistant.

WASHINGTON

Kaniksu—W. N. MILLAR, Forest Supervisor, Newport (WU-Am, GN); N. C. Brown, Deputy Forest Supervisor.

DISTRICT 2

Colorado, Wyoming, South Dakota, Nebraska, and western Kansas. Office, Majestic Building, Denver, Colo.

SMITH RILEY, District Forester; T. W. NORCROSS, District Engineer.

LAW—Office of the Solicitor (Forest Service Branch). GEO. E. TROWBRIDGE, Assistant to the Solicitor, in charge; J. F. LAWSON, Assistant to the Solicitor.

ACCOUNTS—H. I. LOVING, District Fiscal Agent.

OPERATION—FRED W. MORRELL, Assistant District Forester.

MAINTENANCE, F. B. AGEE.

SILVICULTURE—S. L. MOORE, Assistant District Forester.

TIMBER SALES, Assistant District Forester in Silviculture.

PLANTING, JOHN BENTLEY, Jr.

SILVICS, C. G. BATES.

COLORADO AND SOUTH DAKOTA—Examination of silvical sample plots on National Forests. Institution of mensuration studies—C. G. Bates, Denver.

COLORADO—Fremont Experiment Station. Continuation and extension of experiments begun in 1910, and institution of new experiments—W. D. Hayes and T. E. Miller, Manitou.

Wagon Wheel Gap Experiment Station. Streamflow and meteorological measurements, in cooperation with B. C. Kadel of the Weather Bureau. Institution of

silvical experiments and ecological studies—John Murdoch, Jr., and R. D. Garver. Wagon Wheel Gap.

GRAZING—J. W. NELSON, Assistant District Forester.

LANDS—C. J. STAHL, Assistant District Forester.

PRODUCTS—H. S. BETTS, Assistant District Forester.

TIMBER TESTS—Timber-testing laboratory in cooperation with the University of Colorado, Boulder, Colo.—N. de W. Betts, in charge.

Report on results of tests on small pieces cut from red cedar, lodgepole pine, and Engelmann spruce telephone poles.

Collection of material for standard tests on the commercial species found in District 2.

WOOD PRESERVATION—Study of wood-preservation methods for permanent improvement work on National Forests in District 2—H. M. Mason, jr., Denver, Colo.

Inspection of metal mines in Ouray district, southern Colorado, to determine feasibility of treating mine timbers—H. M. Mason, jr., and H. S. Betts.

Installation of cooperative open-tank treating plant at Agricultural College, Fort Collins, Colo.—H. M. Mason, jr.

Study of the use of native timbers for crossties by railroads operating in Colorado—N. de W. Betts.

WOOD UTILIZATION—Turpentine experiments in Arizona and Colorado.—H. S. Betts.

Preparation of preliminary report on utilization of dead timber—N. de W. Betts and H. S. Betts.

NATIONAL FORESTS

COLORADO

Arapaho—ARTHUR M. COOK, Forest Supervisor, Fraser (WU-Ad); Arthur T. Upson, Forest Assistant.

Battlement—JOHN W. LOWELL, Jr., Forest Supervisor, Collbran (WU-WF, G).

Cochetopa—EUGENE WILLIAMS, Forest Supervisor, Saguache (WU-G); Charles P. Bliss, Forest Assistant.

Colorado—H. N. WHEELER, Forest Supervisor, Fort Collins (WU-WF); H. B. Holroyd, Deputy Forest Supervisor; Harold C. Clark, Forest Assistant.

Gunnison—WM. R. KREUTZER, Forest Supervisor, Gunnison (WU-WF, G); E. C. Berky, Deputy Forest Supervisor; W. H. Mast, Forest Assistant.

Hayden—See Wyoming.

Holy Cross—HARRY H. FRENCH, Forest Supervisor, Glenwood Springs (WU-WF, G); Albert H. Miller, Deputy Forest Supervisor.

La Sal—See Utah, District 4.

Leadville—THEODORE SHOEMAKER, Forest Supervisor, Leadville (WU, P-WF, G); R. E. Clark, Deputy Forest Supervisor; J. E. Martin, Forest Assistant.

Montezuma—RESS PHILLIPS, Forest Supervisor, Mancos (WU-G); Frank B. Notestein, Forest Assistant.

Pike—C. W. FITZGERALD, Forest Supervisor, Denver (WU, P-Ad, Am, G, US, WF); W. I. Hutchinson, Forest Assistant; Monument Nursery—Henry G. Reinsch, Forest Expert; W. Schrader, Forest Planting Assistant, Monument.

Rio Grande—W. J. Morrill, Forest Supervisor, Monte Vista (WU-G); Walter F. Bowers, Deputy Forest Supervisor; Jay Higgins, Forest Assistant.

Routt—J. H. Ratliff, Forest Supervisor, Steamboat Springs (WU-Ad); P. J. Paxton, Forest Assistant.

San Isabel—J. N. Langworthy, Forest Supervisor, Westcliffe (WU-G); M. B. Willey, Deputy Forest Supervisor; Albin G. Hamel, Forest Assistant.

San Juan, East—A. L. Sweitzer, Forest Supervisor, Pagosa Springs (WU-G).

San Juan, West—Ernest W. Shaw, Forest Supervisor, Durango (WU-G); John C. De Camp, Forest Assistant.

Sopris—John McLaren, Forest Supervisor, Aspen (WU-WF, G); Joseph H. Potts, Forest Assistant.

Uncompahgre—Howard S. Bushnell, Forest Supervisor, Delta (WU-G); L. E. Cooper, Deputy Forest Supervisor; J. H. Ramskill, Forest Assistant.

White River—James A. Blair, Forest Supervisor, Meeker (WU-WF, G); G. P. Bard, Forest Assistant.

KANSAS

Kansas—B. R. H. d'Allemand, Forest Supervisor, Garden City (WU, P-WF); Garden City Nursery.

NEBRASKA

Nebraska—R. G. Pierce, Acting Forest Supervisor, Halsey (WU-Ad); Halsey Nursery—C. R. Bechtle, Forest Planting Assistant.

SOUTH DAKOTA

Black Hills, North—Paul D. Kelleter, Forest Supervisor, Deadwood (WU-Ad, Am); Seward D. Smith, Forest Assistant.

Black Hills, South—R. P. Imes, Forest Supervisor, Custer (WU-Ad); Stephen V. Klem, Forest Assistant.

WYOMING

Bighorn—E. N. Kavanagh, Forest Supervisor, Sheridan (WU-Ad); Andrew G. Stockwell, Deputy Forest Supervisor; Earl S. Pierce, Forest Assistant.

Bonneville, Green River—H. C. Hall, Forest Supervisor, Pinedale (WU-Am).

Bonneville, Sweetwater—C. G. Poole, Forest Supervisor, Lander (WU-Am).

Bonneville, Wind River—H. Earl French, Forest Supervisor, Dubois (WU-Am).

Hayden—James Blackhall, Forest Supervisor, Encampment (WU, P-Am); Roy S. Wheeler, Forest Assistant.

Medicine Bow—P. S. Lovejoy, Forest Supervisor, Laramie (WU, P-Am); R. A. Stretch, Forest Assistant.

Shoshone—R. W. Allen, Acting Forest Supervisor, Cody (WU-Ad).

Sundance—Louis Knowles, Forest Supervisor, Sundance (WU-Ad, Am).

DISTRICT 3

Arizona, Arkansas, Florida, New Mexico, and Oklahoma. Office, Strickler-Luna Building, Albuquerque, N. Mex.

A. C. RINGLAND, District Forester; E. H. CLAPP, Associate District Forester.

LAW—Office of the Solicitor (Forest Service Branch). BLAKE FRANKLIN, Assistant to the Solicitor, in charge; R. F. FEAGANS, Assistant to the Solicitor.

ACCOUNTS—J. J. DUFFY, District Fiscal Agent.

OPERATION—A. O. WAHA, Assistant District Forester; A. S. PECK, Assistant District Forester.

MAINTENANCE, W. B. BUNTON.

SILVICULTURE—T. S. WOOLSEY, Jr., Assistant District Forester; A. B. RECKNAGEL, Assistant District Forester.

TIMBER SALES, Assistant District Foresters in Silviculture.

ARKANSAS—Reconnaissance of the Arkansas and Ozark National Forests—J. H. Allison, in charge; T. B. Longwell and George C. Morbeck, field chiefs; assistants, W. W. Bennett, Clarence Goddard, D. D. Harkness, R. E. Hopson, E. R. Poynter, Jennings D. McLeod, R. T. Ross, Robt. L. Stephenson, I. C. Waterbury, T. F. Wells, Dave Winbray; E. C. Hamilton and H. E. Greenleaf, draftsmen.

Market study, check scaling, and examination of proposed timber sales, on the Arkansas National Forest—Athol A. Wynne, Lumberman, Hot Springs.

NEW MEXICO—Examination of proposed timber sale areas on the Gila National Forest—Nelson L. Le Grand, Lumberman, Silver City.

PLANTING, Assistant District Foresters in Silviculture.

SILVICS, Coconino Forest Experiment Station—G. A. PEARSON, Flagstaff, Ariz., in charge; assistants, Max H. Foester, H. H. Greenamyre, Robert R. Hill, Norman W. Scherer, Flagstaff, Ariz.

GRAZING—J. K. CAMPBELL, Assistant District Forester; JOHN KERR, Assistant District Forester.

LANDS—FRANK C. W. POOLER, Assistant District Forester.

NATIONAL FORESTS

ARIZONA

Apache—JOHN D. GUTHRIE, Forest Supervisor, Springerville (WU, P-WF); Frederick Winn, Deputy Forest Superviser; Aldo Leopold, Forest Assistant.

Chiricahua—A. H. ZACHAU, Forest Supervisor, Portal (WU, P-WF); Ira T. Yarnall, Forest Assistant.

Coconino—WILLARD M. DRAKE, Forest Supervisor, Flagstaff (WU, P-WF); J. C. Kircher, Forest Assistant.

Coronado—ROBERT J. SELKIRK, Forest Supervisor, Tucson (WU, P-WF); Robert L. Rogers, Deputy Forest Supervisor.

Crook—T. T. SWIFT, Forest Supervisor, Safford (WU-WF).

Garces—ROBERT J. SELKIRK, Forest Supervisor, Tucson (WU, P-WF); Robert L. Rogers, Deputy Forest Supervisor.

Prescott—C. H. HINDERER, Forest Supervisor, Prescott (WU-WF); J. C. McNelty, Deputy Forest Supervisor.

Sitgreaves—CHAS. H. JENNINGS, Acting Forest Supervisor, Snowflake (WU, P-WF).

Tonto—R. G. WILLSON, Forest Supervisor, Roosevelt (WU-WF).

Tusayan—STANTON G. SMITH, Forest Supervisor, Williams (WU, P-WF); Gordon T. Backus, Forest Assistant.

Zuni—See New Mexico.

ARKANSAS

Arkansas—S. A. CHAPPELL, Acting Forest Supervisor, Hot Springs (WU, P-WF, P); C. J. Heller, Forest Assistant.

Ozark—FRANCIS KIEFER, Forest Supervisor, Harrison (WU-WF); Ralph C. Huey, Deputy Forest Supervisor; L. L. Janes and Geo. C. Morbeck, Forest Assistants.

FLORIDA

Choctawhatchee, **Ocala**—I. F. ELDREDGE, Forest Supervisor, Pensacola; W. F. Hill, Deputy Forest Supervisor; P. D. Edmunds, Forest Agent.

NEW MEXICO

Alamo—C. C. HALL, Forest Supervisor, Cloudcroft (WU, P-WF); R. F. Balthis, Deputy Forest Supervisor; Raymond E. Marsh, Forest Assistant.

Carson—HARRY C. HALL, Acting Forest Supervisor, Antonito, Colo. (WU-G).

Chiricahua—See Arizona.

Datil—W. H. GODDARD, Forest Supervisor, Magdalena (WU, P-WF); Robert L. Deering, Forest Assistant.

Gila—DON P. JOHNSTON, Acting Forest Supervisor, Silver City (WU, P-WF); Chas. A. Kissam, Forest Agent; Fort Bayard Nursery—H. C. Turner, Forest Planting Assistant.

Jemez—FRANK E. ANDREWS, Forest Supervisor, Santa Fe (WU, P-WF); B. M. Thomas and A. D. Read, Deputy Forest Supervisors; Charles D. Faunce, Forest Assistant.

Lincoln—J. A. KINNEY, Forest Supervisor, Capitan (WU, P-WF).

Manzano—W. R. MATTOON, Forest Supervisor, Albuquerque (WU, P-WF); James F. Mullen, Deputy Forest Supervisor.

Pecos—THOS. R. STEWART, Forest Supervisor, Pecos (WU, P-WF); Hugh G. Calkins, Deputy Forest Supervisor; Las Gallinas Nursery—H. D. Burrall, Forest Planting Assistant.

Zuni—W. R. MATTOON, Forest Supervisor, Albuquerque (WU, P-WF); James F. Mullen, Deputy Forest Supervisor.

OKLAHOMA

Wichita—FRANK RUSH, Game Warden, in charge, Cache (WU-WF).

DISTRICT 4

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Forest Service Building, Ogden, Utah.

E. A. SHERMAN, District Forester; FRANKLIN W. REED, Associate District Forester.

LAW—Office of the Solicitor (Forest Service Branch). A. W. JENSEN, Assistant to the Solicitor, in charge.

ACCOUNTS—Q. R. CRAFT, District Fiscal Agent.

OPERATION—A. C. MCCAIN, Assistant District Forester.

MAINTENANCE, FELIX T. MOORE.

BOUNDARIES, R. V. R. REYNOLDS.

SILVICULTURE—FRANKLIN W. REED, Associate District Forester.

TIMBER SALES, Assistant District Forester in Silviculture.

ARIZONA—Compiling data and preparation of map, Kaibab reconnaissance—Nils Eckbo and S. S. Stewart, Ogden, Utah.

IDAHO—Compiling data, reconnaissance Salmon National Forest—William W. Twaddell, jr., and Samuel B. Locke.

Compiling data, reconnaissance of Targhee National Forest—H. B. Maris.

UTAH—Reconnaissance Sevier National Forest—R. W. Taylor, W. N. Sparhawk, and Levon H. Kooyumjian.

PLANTING, J. M. FETHEROLF.

SILVICS, E. R. HODSON.

GRAZING—HOMER E. FENN, Assistant District Forester; G. G. BENTZ, Assistant District Forester.

LANDS—T. C. HOYT, Assistant District Forester.

SUPPLY DEPOT—A. M. SMITH, Property Clerk.

PROPERTY AUDIT—J. G. FALCK, Property Auditor.

NATIONAL FORESTS

ARIZONA

Dixie—See Utah.

Kaibab—JAMES L. PELTON, Forest Supervisor, Kanab, Utah (WU-WF).

IDAHO

Boise—E. GRANDJEAN, Forest Supervisor, Boise (WU-Am); M. S. Benedict, Deputy Forest Supervisor.

Cache—See Utah.

Caribou—N. E. SNELL, Forest Supervisor, Idaho Falls (WU-Am).

Challis—DAVID LAING, Forest Supervisor, Challis (WU-Am).

Idaho—J. E. ROTHERY, Forest Supervisor, McCall (WU-P).

Lemhi—C. I. HUDDLE, Forest Supervisor, Mackay (WU-Am); A. L. Brower, Forest Assistant.

Minidoka—WILLIAM MCCOY, Forest Supervisor, Oakley (WU-Am).

Palisade—DAN S. PACK, Forest Supervisor, St. Anthony (WU-Am); James B. Saxton, Forest Assistant.

Payette—GUY B. MAINS, Forest Supervisor, Emmett (WU-Am); Frank J. Ryder, Deputy Forest Supervisor.

Pocatello—J. F. BRUINS, Forest Supervisor, Pocatello (WU-Am); Pocatello Nursery—P. T. Wrensted, Forest Ranger.

Salmon—JAMES M. RYAN, Forest Supervisor, Salmon (WU-Am); John A. Pearson, Deputy Forest Supervisor; Irwin W. Cook Forest Assistant.

Sawtooth—C. N. WOODS, Forest Supervisor, Hailey (WU-Am); H. G. McPheters, Deputy Forest Supervisor.

Targhee—CHESTER B. MORSE, Forest Supervisor, St. Anthony (WU-Am); Charles A. Beam, Deputy Forest Supervisor.

Weiser—J. B. LAFFERTY, Forest Supervisor, Weiser (WU-Am); W. M. Campbell, Deputy Forest Supervisor; A. E. Oman, Forest Assistant.

NEVADA

Humboldt—C. SYDNEY TREMEWAN, Forest Supervisor, Elko (WU-WF); W. W. Blakeslee, Deputy Forest Supervisor; Herman Work, Forest Assistant.

Moapa—THOMAS J. COLLINS, Acting Forest Supervisor, Las Vegas (WU-Am).

Nevada—R. F. MATHIAS, Forest Supervisor, Ely (WU-WF); Rudolph Dieffenbach, Deputy Forest Supervisor; Robert Rosenbluth, Forest Assistant.

Toiyabe—HERBERT GRAFF, Forest Supervisor, Austin (WU, P-WF).

UTAH

Ashley—W. M. ANDERSON, Forest Supervisor, Vernal (WU-WF).

Cache—CLINTON G. SMITH, Forest Supervisor, Logan (WU-Am); John Riis, Deputy Forest Supervisor.

Dixie—JOHN RAPHAEL, Forest Supervisor, St. George (WU-WF).

Fillmore—WM. HURST, Forest Supervisor, Beaver (WU-WF); George C. Thompson, Deputy Forest Supervisor.

Fishlake—CARL B. ARENTSON, Forest Supervisor, Salina (WU-WF); D. M. Lang, Deputy Forest Supervisor.

La Sal—HENRY A. BERG, Forest Supervisor, Moab (WU-WF); C. E. Dunston, Deputy Forest Supervisor.

Manti—C. L. SMITH, Forest Supervisor, Ephraim (WU-WF); Ernest Winkler, Deputy Forest Supervisor; F. T. McLean, Forest Assistant.

Minidoka—See Idaho.

Nebo—H. F. STUDLEY, Forest Supervisor, Nephi (WU-WF).

Pocatello—See Idaho.

Powell—GEO. H. BARNEY, Forest Supervisor, Escalante (WU-WF).

Sevier—O. C. SNOW, Forest Supervisor, Panguitch (WU-WF); Lincoln Crowell, Deputy Forest Supervisor.

Uinta—W. I. PACK, Forest Supervisor, Provo (WU-WF); J. Carl Allred, Deputy Forest Supervisor; Dana Parkinson, Forest Assistant.

Wasatch—E. H. CLARKE, Forest Supervisor, Salt Lake City (WU, P-Am, WF); Wasatch Nursery—N. J. Fetherolf, Forest Planting Assistant.

WYOMING

Ashley—See Utah.
Caribou—See Idaho.
Targhee—See Idaho.
Teton—R. E. MILLER, Forest Supervisor, Jackson (WU-Am).
Wyoming—JAMES E. JEWELL, Forest Supervisor, Afton (WU-Am); L. J. Phelan, Deputy Forest Supervisor; John E. Ingram, Forest Assistant.

DISTRICT 5

California and southwestern Nevada. Office, First National Bank Building, San Francisco, Cal.

F. E. OLMSTED, District Forester; COERT DUBOIS, Associate District Forester; WALTER L. HUBER, District Engineer.

LAW—Office of the Solicitor (Forest Service Branch). H. P. DECHANT, Assistant to the Solicitor, in charge.

ACCOUNTS—F. C. THOMPSON, District Fiscal Agent.

OPERATION—ROY HEADLEY, Assistant District Forester.

MAINTENANCE, M. R. Tillotson.

SILVICULTURE—T. D. WOODBURY, Assistant District Forester.

TIMBER SALES, Assistant District Forester in Silviculture.

Reconnaissance on the Plumas National Forest—Patrick Kennedy and C. H. Ensign, Lumbermen, Quincy, Cal.

Reconnaissance on the Tahoe National Forest—J. C. Elliott, Lumberman, Nevada City, Cal.

SILVICS, Assistant District Forester in Silviculture.

Study of tree diseases in the California National Forests—E. P. Meinecke, Consulting Pathologist, San Francisco, Cal.

Study of insect-infested timber—John M. Miller, Forest Ranger, Northfork, Cal.

GRAZING—JOHN H. HATTON, Assistant District Forester; M. B. ELLIOTT, Assistant District Forester.

LANDS—L. A. BARRETT, Assistant District Forester.

PRODUCTS—C. STOWELL SMITH, Assistant District Forester.

WOOD PRESERVATION—Experiments to determine the best methods of seasoning *Eucalyptus globulus* poles, logs, and lumber, in cooperation with the estate of Adolph Sutro, the Pacific Land Investment Company, the Mount Tamalpais Cemetery Association, the Parkside Realty Company, and the Pioneer Wood Company; and *Eucalyptus viminalis* logs, in cooperation with the University of California—C. Stowell Smith, San Francisco, Cal.

Operation of a portable treating plant in Long and Honey Lake Valleys, Lassen County, Cal.—C. A. Kupfer.

Preservation of posts and poles, in cooperation with the ranchers in Scott Valley, Siskiyou County, Cal.

Experimental treatment of telephone poles for permanent improvement by the "Boucherie" process, Eldorado National Forest.

Preparation of inspection report on telephone poles treated and set, in cooperation with Southern California electric companies—C. A. Kupfer, San Francisco, Cal.

Experiments to determine the relative resistance to marine wood borers of different species of untreated timber and of Douglas fir treated by various preservatives and coatings—A. K. Armstrong, San Francisco, Cal.

WOOD UTILIZATION—Study of the wood-using industries of the State, in cooperation with the State Board of Forestry.

Study of fence-post, mine-timber, and telephone-pole situation on and adjacent to the Inyo National Forest—Jas. B. Berry, Forest Assistant, Bishop, Cal.

Turpentining experiments on the Sierra and Lassen National Forests and in cooperation with the Union Lumber Company, Fort Bragg, to determine the yield and cost of operation per unit of area on western yellow, Digger, lodgepole, and pricklecone pines.

NATIONAL FORESTS

CALIFORNIA

Angeles—R. H. CHARLTON, Forest Supervisor, Los Angeles (WU, P-WF); Ernest B. Long, Deputy Forest Supervisor; J. M. Grant, Forest Expert, in charge of planting operations; Serope Y. Parnay, Forest Planting Assistant, San Bernardino.

California—D. P. GODWIN, Acting Forest Supervisor, Willows (P-WF); A. W. Bartlett, Deputy Forest Supervisor; S. W. Strothman, Forest Assistant.

Cleveland—H. A. E. MARSHALL, Forest Supervisor, San Diego (WU, P-WF); Percy L. Day, Deputy Forest Supervisor; F. L. Rickey, Planting Assistant.

Eldorado—EVAN W. KELLEY, Forest Supervisor, Placerville (WU-WF).

Inyo—A. H. HOGUE, Forest Supervisor, Bishop (WU-WF); Jas. B. Berry, Forest Assistant.

Kern—W. J. RUSHING, Forest Supervisor, Bakersfield (WU-WF); Jas. O. Morrow, Deputy Forest Supervisor.

Klamath—W. B. RIDER, Forest Supervisor, Yreka (WU-WF); J. R. Hall, Deputy Forest Supervisor; Shirley W. Allen, Forest Assistant.

Lassen—L. A. H. KLING, Forest Supervisor, Red Bluff (P-WF); J. C. La Plant, Deputy Forest Supervisor.

Modoc—C. E. RACHFORD, Forest Supervisor, Alturas (P-WF); Vernon L. Bonner, Deputy Forest Supervisor; Belknap C. Goldsmith, Forest Assistant.

Mono—See Nevada.

Monterey—RAYMOND TYLER, Forest Supervisor, Salinas (WU-WF).

Plumas—D. N. ROGERS, Forest Supervisor, Quincy (WU-WF); W. G. Durbin, Deputy Forest Supervisor; R. S. Maddox and Geo. R. Orr, Forest Assistants.

Santa Barbara—WILLIS M. SLOSSON, Forest Supervisor, Santa Barbara (P-WF); H. G. Merrill, Deputy Forest Supervisor; W. H. Moore, Forest Assistant.

Sequoia—ALLAN B. PATTERSON, Forest Supervisor, Hot Springs, Tulare County (WU via Portersville-WF); W. C. Burton, Deputy Forest Supervisor; S. W. Wynee, Forest Assistant.

Shasta—R. F. HAMMATT, Forest Supervisor, Sisson (P-WF); Philip T. Harris, Deputy Forest Supervisor; John D. Coffman and Stewart B. Show, Forest Assistants.

Sierra—P. G. REDINGTON, Forest Supervisor, Northfork (WU via Fresno-WF); M A. Benedict, Deputy Forest Supervisor; Ernest G. Dudley, Forest Assistant.

Stanislaus—R. W. AYRES, Forest Supervisor, Sonora (WU-WF); J. V. Wulff and Louis T. Larsen, Forest Assistants.

Tahoe—R. L. P. BIGELOW, Forest Supervisor, Nevada City (WU-WF); M. B. Pratt, Deputy Forest Supervisor; J. Alfred Mitchell and Wm. H. Gallaher, Forest Assistants.

Trinity—W. A. HUESTIS, Forest Supervisor, Weaverville (WU-WF); Ernest V. Jotter, Forest Assistant.

NEVADA

Inyo—See California.

Mono—WM. M. MAULE, Forest Supervisor, Gardnerville (WU-WF); T. C. West, Deputy Forest Supervisor; Rex King, Forest Assistant.

Tahoe—See California.

DISTRICT 6

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

GEO. H. CECIL, District Forester; W. E. HERRING, District Engineer.

LAW—Office of the Solicitor (Forest Service Branch). W. F. STALEY, Assistant to the Solicitor in charge; D. F. MCGOWAN, Assistant to the Solicitor.

ACCOUNTS—A. H. COUSINS, District Fiscal Agent.

OPERATION—C. H. FLORY, Assistant District Forester.

MAINTENANCE, SHIRLEY BUCK.

SILVICULTURE—F. E. AMES, Assistant District Forester; C. S. JUDD, Assistant District Forester.

Study of forest taxation in Washington—F. B. Kellogg and F. G. Miller, Forest Assistants.

TIMBER SALES, Assistant District Foresters in Silviculture.

OREGON—Examination of proposed sale areas on the Crater National Forest—D. L. McKay, Scaler, Medford.

ALASKA—Scaling on the Tongass National Forest—Edwin C. Erickson, Scaler, Ketchikan.

PLANTING, J. F. KÜMMEL.

SILVICS, T. T. MUNGER.

GRAZING—T. P. MACKENZIE, Assistant District Forester.

LANDS—C. J. BUCK, Assistant District Forester.

PRODUCTS—J. B. KNAPP, Assistant District Forester.

TIMBER TESTS—Testing laboratory in cooperation with the University of Washington, Seattle, Wash.—O. P. M. Goss, in charge; assistants, C. W. Zimmerman and H. P. Wyckoff.

Strength tests on green and air-dried western yellow pine—O. P. M. Goss, Seattle, Wash.

WOOD PRESERVATION—Experimental operation of an open-tank treating plant in cooperation with the University of Washington Forest School—O. P. M. Goss, Seattle, Wash.

Collection of experimental woods—J. B. Knapp and C. W. Dunning, Portland, Oreg.

WOOD UTILIZATION—Study of the market for and uses of forest products in the Spokane territory—J. B. Knapp, Portland, Oreg., and C. W. Dunning, Spokane, Wash.

Study of the rate of deterioration and usability of fire-killed timber—C. W. Dunning, Portland, Oreg.

Study of model milling methods—H. B. Oakleaf, Portland, Oreg.

Study of the kiln-drying of Douglas fir—H. B. Oakleaf, Portland, Oreg.

NATIONAL FORESTS

ALASKA

Chugach—W. A. LANGILLE, Forest Supervisor, Ketchikan (SC, U. S. A., WU-AP, Am); Thos. M. Hunt, Deputy Forest Supervisor; Bruce Hoffman, Forest Assistant.

Tongass—W. A. LANGILLE, Forest Supervisor, Ketchikan (SC, U. S. A., WU-AP, Am).

CALIFORNIA

Crater—See Oregon.

Siskiyou—See Oregon.

OREGON

Cascade—C. R. SEITZ, Forest Supervisor, Eugene (WU, P-WF); J. R. Harvey, Deputy Forest Supervisor; E. B. Starr and B. Frank Heintzleman, Forest Assistants.

Crater—M. L. ERICKSON, Forest Supervisor, Medford (WU, P-WF); S. S. Swenning, Deputy Forest Supervisor; H. D. Foster and William E. White, Forest Assistants.

Deschutes—A. S. IRELAND, Forest Supervisor, Prineville (PT & T-Am via Shaniko, WF via Shaniko); B. F. Johnson, Deputy Forest Supervisor; Reginald R. Chaffee, Forest Assistant.

Fremont—GILBERT D. BROWN, Forest Supervisor, Lakeview (WU via Reno, Nev.-WF); Norman G. Jacobson, Forest Assistant; Nelson J. Billings, Grazing Assistant.

Malheur—CY. J. BINGHAM, Forest Supervisor, John Day (WU via Baker City-Am, WF via Baker City); D. B. Reynolds, Deputy Forest Supervisor; Herbert J. Miles, Forest Assistant.

Oregon—T. H. SHERRARD, Forest Supervisor, Portland (WU, P-Am, WF, N); Ralph S. Shelley, Deputy Forest Supervisor; W. B. Osborne and Max Rothkugel, Forest Assistants.

Siskiyou—R. L. FROMME, Forest Supervisor, Grants Pass (WU, P-WF); N. F. McDuff, Deputy Forest Supervisor; H. Haefner, Forest Assistant.

Siuslaw—A. E. COHOON, Forest Supervisor, Eugene (WU, P-WF); David E. Fitton, Deputy Forest Supervisor; R. E. Dickson, Forest Assistant.

Umatilla—THOS. E. CHIDSEY, Forest Supervisor, Heppner (WU-Am); George A. Bright, Forest Assistant.

Umpqua—S. C. BARTRUM, Forest Supervisor, Roseburg (WU, P-WF); E. H. McDaniels and Wilmot W. G. Hastings, Forest Assistants.

Wallowa—H. W. HARRIS, Forest Supervisor, Wallowa (WU-Am); S. A. Brown, Deputy Forest Supervisor; Charles Black, Grazing Assistant; Robie M. Evans, Forest Assistant.

Wenaha—See Washington.

Whitman—HENRY IRELAND, Forest Supervisor, Sumpter (WU via Baker City-Am, WF via Baker City); M. L. Merritt, Forest Assistant.

WASHINGTON

Chelan—G. W. MILHAM, Forest Supervisor, Chelan (PT & T-Am, GN via Wenatchee); H. M. Coan, Forest Assistant.

Chelan (Okanogan)—H. M. HALE, Forest Supervisor, Okanogan; Robert G. Merritt, Forest Assistant.

Columbia—H. O. STABLER, Forest Supervisor, Portland, Oreg. (WU, P-Am, WF, N); Homer Ross, Deputy Forest Supervisor; A. R. Wilcox and Lage Wernstedt, Forest Assistants.

Colville—C. C. REID, Forest Supervisor, Republic (WU, P-Am, GN); F. W. Cleator, Deputy Forest Supervisor; Edward W. Headsten, Forest Assistant.

Olympic—R. E. BENEDICT, Forest Supervisor, Olympia (WU-Am, GN, N); A. A. Parker, Deputy Forest Supervisor; Harold P. Gilky and William H. Gibbons, Forest Assistants.

Rainier—G. F. ALLEN, Forest Supervisor, Tacoma (WU, P-Am, N); H. L. Hurd, Deputy Forest Supervisor; E. J. Fenby, Forest Assistant.

Snoqualmie—B. P. KIRKLAND, Forest Supervisor, Seattle (WU, P-N, GN, WF); E. T. Clark, Deputy Forest Supervisor.

Washington—C. H. PARK, Forest Supervisor, Bellingham (WU, P-Am, GN, N); F. H. Brundage, Deputy Forest Supervisor; Herman M. Johnson, Forest Assistant.

Wenaha—J. M. SCHMITZ, Forest Supervisor, Walla Walla (WU-Am, N).

Wenatchee—A. H. SYLVESTER, Forest Supervisor, Leavenworth (WU-Am, GN); S. A. Blankenship, Deputy Forest Supervisor; C. P. Willis, Forest Assistant.

SERVICE CHANGES

APPOINTED

FORESTER—Dendrology: William H. Lamb, Scientific Assistant in Forest Distribution.

SILVICULTURE—Silvics: Robert H. Moran, Student Assistant.

PRODUCTS—Laboratory: James C. Lawrence, Assistant Chemical Engineer in Forest Products; Robert E. Cooper, Chemist in Forest Products; Louis Witt, Assistant Engineer in Forest Products; Clyde Teesdale, Assistant Engineer in Forest Products; Thomas R. C. Wilson, Assistant Engineer in Forest Products; Lee F. Hawley, Chemist in Forest Products; Ernest Bateman, Chemist in Forest Products. Wood Utilization: John Harris, Statistician in Forest Products.

DISTRICT 2—Operation: Henry L. Thackwell, Forest Expert, Gunnison National Forest.

DISTRICT 5—Lands: George F. Peekema, Expert, District Office.

RESTORED TO THE ROLLS

DISTRICT 1—Operation: Elmer D. Fletcher, Deputy Forest Supervisor, Washington Office.

DISTRICT 2—Operation: Albin G. Hamel, Forest Assistant, San Isabel National Forest.

DISTRICT 5—Operation: Allen H. Hodgson, Forest Assistant, Klamath National Forest.

CHANGE IN DESIGNATION

DISTRICT 1—Operation: Harry C. Schick, from Deputy Forest Supervisor to Forest Ranger, Deerlodge National Forest.

DISTRICT 5—Operation: Frederick H. Hafley, from Forest Supervisor to Forest Ranger, Trinity National Forest.

DISTRICT 6—District Forester: Charles S. Chapman, District Forester to Forest Assistant. Operation: Theodore F. Rixon, Civil Engineer to Expert, Olympic National Forest.

TRANSFERRED

OPERATION—Clyde Leavitt, Assistant Forester, to Forest Inspector, Appalachian.

SILVICULTURE—A. K. Chittenden, Forest Examiner, to Forest Inspector, Appalachian.

DISTRICT 1—Operation: W. B. Piper, Forest Examiner, from Madison National Forest to Michigan and Marquette National Forests; Reuben P. Prichard, Forest Assistant, from Deerlodge National Forest to Lolo National Forest; Rutledge Parker, Deputy Forest Supervisor, from Kootenai National Forest to Missoula National Forest; Donald R. Brewster, Forest Assistant, from Beartooth National Forest to Sioux and Dakota National Forests; Harry C. Schick, Forest Ranger, from Deerlodge National Forest to Lewis and Clark National Forest; Karl W. Woodward, Forest Examiner, from Missoula National Forest to Appalachian, Washington Office; Elmer

D. Fletcher, Deputy Forest Supervisor, to Appalachian, Washington Office. Silviculture: H. H. Farquhar, Forest Assistant, from Jefferson National Forest to District Office in charge of Planting.

DISTRICT 3—Operation: Daniel W. Adams, Forest Supervisor, from Arkansas National Forest to Lumberman, Appalachian, Washington Office; Verne Rhoades, from Assistant Forest Ranger (reinstated) to Forest Examiner, Appalachian, Washington Office. Lands: Thomas B. Landers, Mineral Examiner, from District 6.

DISTRICT 4—Operation: Deputy Forest Supervisors—Lincoln Crowell, Targhee National Forest to Sevier National Forest; Clarence E. Dunston, Palisade National Forest to La Sal National Forest; Duncan M. Lang, Kaibab National Forest to Fishlake National Forest. Forest Assistants—Samuel B. Locke, Salmon National Forest to Sawtooth National Forest; Harry B. Maris, Targhee National Forest to La Sal National Forest; William N. Sparhawk, Salmon National Forest to Sevier National Forest; Sidney S. Stewart, Fishlake National Forest to La Sal National Forest; William W. Twaddell, jr., Salmon National Forest to Fishlake National Forest; Herman Work, Dixie National Forest to Humboldt National Forest; Reese W. Taylor, Nevada National Forest to Sevier National Forest; Nils B. Eckbo, Forest Agent, Dixie National Forest to Fishlake National Forest; Levon H. Kooyumjian, Forest Guard, Moapa National Forest to Sevier National Forest.

DISTRICT 5—Operation: Walter M. Moore, Forest Assistant, from Washington Office to Santa Barbara National Forest.

DISTRICT 6—Operation: Lage Wernstedt, Forest Expert, Chugach National Forest to Columbia National Forest. Silviculture: Alex. G. Jackson, Forest Assistant, Snoqualmie National Forest to District Office. Lands: Thomas B. Landers, Mineral Examiner, District 6 to District 3.

PROMOTED

DISTRICT 1—Operation: William A. Raymond, Kootenai National Forest, from Forest Ranger to Deputy Forest Supervisor.

DISTRICT 2—Operation: John W. Lowell, jr., from Deputy Forest Supervisor to Forest Supervisor, Battlement National Forest.

DISTRICT 3—Operation: Willard M. Drake, from Deputy Forest Supervisor to Forest Supervisor, Coconino National Forest; Elbert H. Crabb, from Deputy Forest Supervisor, Tusayan National Forest, to Forest Supervisor, Sitgreaves National Forest.

DISTRICT 4—Operation: Chester B. Morse, Deputy Forest Supervisor to Forest Supervisor, Targhee National Forest; Lincoln Crowell, Forest Assistant to Deputy Forest Supervisor, Targhee National Forest; Clarence E. Dunston, Forest Examiner to Deputy Forest Supervisor, Palisade National Forest; Duncan M. Lang, Scaler, Kaibab National Forest, to Deputy Forest Supervisor, Fishlake National Forest; Charles A. Beam, Forest Ranger, Palisade National Forest, to Deputy Forest Supervisor, Targhee National Forest.

DISTRICT 5—Operation: Bert Lewis, from Assistant Forest Ranger to Deputy Forest Supervisor, Stanislaus National Forest; Wilbur A. Huestis, from Deputy Forest Supervisor to Forest Supervisor, Trinity National Forest.

DISTRICT 6—District Forester: George H. Cecil, Associate District Forester to District Forester.

LEAVE WITHOUT PAY

DISTRICT 2—Operation: Crosby A. Hoar, Forest Assistant, White River National Forest; H. W. Thurston, Forest Supervisor, Shoshone National Forest.

DISTRICT 5—Operation: Napoleon B Drew, Deputy Forest Supervisor, California National Forest.

FURLOUGHED

DISTRICT 1—Operation: Elwood I. Terry, Forest Assistant, Deerlodge National Forest; Edward G. Stahl, Deputy Forest Supervisor, Pend Oreille National Forest; Joseph W. Butler, Forest Assistant, Madison National Forest; H. E. Fegley, Forest Assistant, Sioux and Dakota National Forests. Silviculture: Austin Cary, Expert; George L. Cott, Lumberman.

DISTRICT 2—Silviculture: George P. Gregg, Lumberman, Black Hills (N) National Forest.

DISTRICT 3—Operation: Barrington Moore, Forest Assistant, Gila National Forest; William J. Duppert, Forest Assistant, Sitgreaves National Forest.

DISTRICT 4—Operation: Orrin C. Snow, Forest Supervisor, Sevier National Forest.

DISTRICT 6—Silviculture: John P. Hughes, Lumberman.

RESIGNED

SILVICULTURE—Samuel N. Spring, Forest Examiner; E. A. Sterling, Assistant Forester. State Cooperation: Richard T. Fisher, Forest Assistant; Blaine S. Viles, Forest Assistant; R. S. Mackintosh, Collaborator; Hugh P. Baker, Forest Assistant. Silvics: Wilmer T. Stone, Forest Assistant.

LANDS—Milton J. McVean, Clerk.

DISTRICT 1—Operation: Fred D. Davis, Forest Assistant, Deerlodge National Forest; Samuel M. Higgins, Forest Agent, Michigan and Marquette National Forests; Elmer R. Brunke, Forest Supervisor, Custer National Forest.

DISTRICT 3—Operation: Elbert H. Crabb, Forest Supervisor, Sitgreaves National Forest; Ross McMillan, Forest Supervisor, Carson National Forest. Silviculture: Samuel J. Record, Forest Assistant.

DISTRICT 5—Silviculture: James Munro Grant, Forest Expert, Angeles National Forest.

APPOINTMENT TERMINATED

FORESTER—Dendrology: Willis L. Jepson, Collaborator.

DISTRICT 2—Operation: Charles E. McMullin, Forest Ranger, Uncompahgre National Forest.

DISTRICT 3—Silviculture: Harry Franklin, Field Assistant.

DISTRICT 5—Operation: Edgar B. Davison, Deputy Forest Ranger, Santa Barbara National Forest; Franklin H. Smith, Assistant Forest Ranger, Plumas National Forest.

SUSPENDED

DISTRICT 4—Operation: David Barnett, Forest Supervisor, Targhee National Forest.

DISMISSED

DISTRICT 1—Operation: Dwight Bushnell, Forest Supervisor, Helena National Forest.

DISTRICT 2—Operation: Roderick S. Day, Assistant Forest Ranger, Rio Grande National Forest.

DISTRICT 3—Operation: William H. B. Kent, Forest Supervisor, Gila National Forest; Walter J. Stockbridge, Assistant Forest Ranger, Gila National Forest.

DISTRICT 4—Operation: Hyrum O. Rose, Forest Ranger, Pocatello National Forest. Silviculture: Leslie L. White, Assistant District Forester, in charge of Silviculture, District Office.

DISTRICT 5—Operation: Julius L. Ammon, Forest Ranger, Klamath National Forest.

DISTRICT 6—Products: John F. Sullivan, Expert.

With deep regret announcement is made of the following deaths which have occurred since the issue of the January number of the Field Program: That of Frank J. Phillips, Forest Assistant, at Lincoln, Nebr., February 13; that of S. A. McIntyre, hunter on the Colorado National Forest, February 25; that of William B. Murdock, clerk in the Section of Drafting, Ogden, Utah, March 15; that of Harry H. Peregoy, Forest Ranger on the Inyo National Forest, January 4; that of John E. Moseley, Assistant Forest Ranger on the Cleveland National Forest, February 9; and that of Robert H. Miller, Assistant Forest Ranger on the Santa Barbara National Forest, February 27.

SERVICE NOTES FOR APRIL

These notes contain instructions and necessary information for Forest officers, and will therefore be carefully read and kept on file for reference.

LAW

Damages Assessed against Grazing Trespasser—

On March 14 proof in the case of United States *v.* William P. Tippett involving grazing trespass on the Wallowa National Forest, was presented to the United States District Court at Portland, Oreg., resulting in an assessment against the trespasser of $64 actual damages, $25 punitive damages, and costs amounting to about $100.

Verdict against the Northern Pacific Railway Co.—

The case of the United States *v.* Northern Pacific Railway Co., which was heard in the United States District Court at Seattle, Wash., on December 6, 1910, in a suit for $6,000 damages from fire alleged to have been started from the company's engines on its right of way, resulted in a verdict for the Government of $5,500 and costs. The verdict was later set aside by Judge Hanford as excessive. Retrial will occur in May or June.

Judgment of Ouster against Illegal Occupants—

On December 29, 1910, judgment of ouster was entered in the United States District Court at Seattle against R. L. and A. V. Higley, involving the illegal occupancy of a tract of land bordering on Lake Quiniault, Olympic National Forest. The defendants secured the land under special use permit, but for two years had refused to make the payment thereunder.

ACCOUNTS

Directions for Express Shipments—

It has recently been held that bills of lading are not necessarily required for shipments by express. Under certain conditions, however, their use has been found to be of advantage. The following rule, therefore, is suggested:

Small local shipments by express may be paid for in cash by the Forest officer making the shipment and the item be included in his next reimbursement account, supported by the express company's receipt as a subvoucher. This receipt must show (*a*) the articles shipped; (*b*) rate; (*c*) weight; (*d*) amount paid; (*e*) the initial and (*f*) terminal points; and (*g*) that the shipment was Government property.

Charges should not be paid on express shipments to or from Washington, as the companies include all such charges in their monthly bills supported by the regular departmental charge slips and receipts.

When field shipments are made to any point other than Washington, and the charges are not paid in cash, bills of lading should be prepared in the usual way.

With regard to freight shipments, no change should be made in the present procedure, the regular bill of lading form being required for all such shipments.

OPERATION

Forest Surveys and Maps—

An insert will soon be issued for the Instructions for Making Surveys and Maps. It will supersede National Forest Order 23, Part 4, and the Instructions for Examinations for Agricultural Settlement. It will contain sample field notes and instructions for platting ranger and homestead surveys.

The insert will also include instructions for mounting maps on muslin, and will describe the method for the cancellation of misleading marks on former Forest boundary posts.

The insert will be pasted in the Instructions for Making Forest Surveys and Maps, edition of 1910, at page 34, and will therefore be available for Forest officers during the season of 1911. The edition for 1912 will contain all of the instructions heretofore issued, together with astronomical tables for 1912.

Rules Concerning Property and Business Relations, Political Activity, and Personal Conduct—

The following rules have been established to protect the Forest Service and its individual members from possible criticism or embarrassment in the discharge of official duties because of any likelihood that official action might be thought to have been improperly influenced by personal motives or interests. The administrative officers will enforce these rules by such measures as they deem necessary. Members of the Service who are in doubt regarding the application of these rules to their personal interests should seek the advice of their official superiors.

1. No member of the Forest Service shall, under any circumstances, file or initiate a claim, directly or indirectly, under any of the public-land laws, to land within the limits of a National Forest. A member who has secured a claim, under any of the public-land laws, to such land, before its inclusion within a National Forest, or before his appointment as a Forest officer, will be allowed to perfect his title, but he may be compelled to choose between his claim and his position should his duties make it impossible for him to comply with the residence or improvement requirements.

2. A member of the Forest Service may acquire land not included within a National Forest, under any of the Federal or State land laws, or have an interest in any association, partnership, or company formed with a view to acquiring such land, unless such action might prejudice his standing as a Forest officer, influence his official action, or tend to bring criticism upon the Forest Service.

3. A member of the Forest Service may purchase private land within or near a National Forest, unless such action might prejudice his standing as a Forest officer, influence his official action, or tend to bring criticism upon the Forest Service.

4. No member of the Forest Service shall, as principal, partner, or agent, speculate or be commercially interested in timber or other forest products, or in live stock, or in any ownership or lease of any timberland, or in any lumbering contract or operation whether on the National Forests or elsewhere, when such action will prejudice his standing, influence his official action, or tend to bring criticism upon the Forest Service.

5. No member of the Forest Service shall, as principal, partner, or agent, be interested in any enterprise which profits by the use of any National Forest on which he is

employed, or by any investigation or other work in which he may be engaged, except as otherwise provided herein.

6. No member of the Forest Service shall, directly or indirectly, engage in or profit by private business transactions with, or receive gifts from, a National Forest user or others with whom he has official relations, which might influence his official action or tend to expose the Forest Service to criticism.

7. It is improper for any member of the Forest Service to grant any privilege or permit by which he or any member of his family will profit, directly or indirectly. Such permits may be issued only by his official superior.

8. Whenever in granting a permit or in making any decision or recommendation the good faith of a member of the Forest Service might be questioned, on the ground that the action was influenced by personal friendship, family relationship, or business interests, the Forest officer may refer the case to his official superior when in his judgment this course is advisable in order to protect himself and the Service.

9. No member of the Forest Service shall give or use information acquired by means of his official position to advance the interests of himself, his family, his business associates, or his personal friends over those of other persons.

10. No member of the Forest Service shall engage in any speculation, mercantile transaction, or other activity of a character to engross his attention or to divert it from his public duty.

11. A Forest officer is a representative of the National Government, and as such his acts as a private individual are particularly open to criticism and may reflect on the Service. Consequently he must set and hold to a high standard of personal conduct and integrity that will safeguard the Service against criticism and embarrassment.

12. The order of the Secretary prohibiting political activity, published in the Field Program of January, 1911, will be strictly enforced.

SILVICULTURE

Correspondence on Insects, Diseases, and Protection from Animals—

All letters dealing with insect infestations on the National Forests, which are prepared by supervisors for the Bureau of Entomology, should be forwarded in triplicate to the District Forester, who will retain one carbon and forward the original and the other carbon, with his approval, or such comment as he may care to make, to the Forester for transmittal to the Bureau of Entomology. The Bureau of Entomology, in its turn, will address its reply in triplicate to the Forest supervisor and will forward it through the Forester and District Forester, each of whom will retain a carbon copy. When the Bureau of Entomology has a District field agent or an expert in charge of a District field station within a Forest Service district, correspondence between the supervisor and the field representative of the Bureau of Entomology should be carried on through the District Forester, with carbons of important letters for the District Forester, Forester, and the Washington office of the Branch of Forest Insect Investigations in the Bureau of Entomology.

Correspondence relating to diseases, which is intended for the Office of Investigations in Forest Pathology in the Bureau of Plant Industry, should similarly be transmitted by the supervisor through the District Forester and the Forester, with

carbons for each. The Bureau of Plant Industry will also reply in triplicate through the Forester. When there is a consulting pathologist in the District, correspondence between him and the supervisor should be carried on through the District Forester, with carbons of all important letters for the District Forester, the Forester, and the Bureau of Plant Industry.

Correspondence relating to protection from birds, rodents and other animals, which is intended for the Biological Survey, should be transmitted by the supervisor through the District Forester and Forester, with carbons for each. Replies from the Biological Survey will be in triplicate through the Forester and District Forester, each of whom will retain a carbon of the reply.

Nursery Reports—

Experiments and investigations at the various Forest Service nurseries often lead to results which would be of particular interest and value to other nurseries. In order that information of this character may be made generally available, it is suggested that the progress reports for all the nurseries in each District be briefly summarized in the District office and a sufficient number of mimeographed copies of this summary be sent to each District Forester for optional distribution to Forest nurseries within each District. Summaries of these reports for general distribution should be made as brief as possible and should include only results of experiments in nursery practice that are distinctly of general interest. Such summaries need not necessarily be made each month, but as often as nursery reports contain sufficient information to justify the expense of compilation.

To Increase the Usefulness of the Library—

It is the aim of the Library Committee to include in the Washington library all books on forestry which might be of any use in this country, and also books on other related subjects which would be frequently referred to by members of the Service. It will help the committee greatly in securing all desirable literature of either of these classes if members of the Service, both in the field and in Washington, will notify the committee at once of new publications which they believe should be included, with the reasons for their recommendation. The value and usefulness of the library can also be increased by notifying the librarian of special articles of interest in periodicals which are not already catalogued, in order that they may be included in the library index. A monthly list of accessions to the library reprinted from American Forestry is sent regularly to each District. Publications in the Washington library can be borrowed at any time by field men, for periods of not more than one month, by applying to the Forester through the District Forester.

GRAZING

Grazing Permits and Trespass Period—

In several cases of grazing trespass, which have been received in the Forester's office during the past season, it has been found that supervisors have issued grazing permits which were for periods covering a part or all of the period during which the stock were grazed upon the National Forest in trespass. It is the opinion of the Solicitor that the issuance of a permit of this character is a condonation of the trespass by the Forest Service, which renders it difficult, if not impossible, to sustain

civil suit for the collection of damages or criminal action for violation of the regulations. Forest supervisors must not, in any case which is to be handled as a grazing trespass, issue a grazing permit authorizing the grazing of the trespassing stock during any part of the period in which the stock were in trespass. If the owner of the trespassing stock is entitled to share in the use of the range, a permit may be issued to him for the remainder of the summer season; but the beginning of the permit period must not antedate the date upon which the application for permit was approved. The approval of the application by the supervisor will be considered as the termination of the trespass, and the inclusive dates, during which the stock are reported in trespass, should be from the date the trespass began until the date of the approval of the grazing application. If, however, the trespasser fails to complete his application by the payment of the proper fees, then the trespass period will be from the date the stock entered the Forest in trespass to the date the stock were removed from the Forest.

LANDS

Claims: Indorsement upon Final-Proof Notices, June 11, 1906, Entries—

The note on page 99 in the January Field Program, "Final Notices and Requests," has been superseded by the following procedure, contained in Circular Letter L—Service, Claims, of February 6, 1911:

When the supervisor receives a copy of the final-proof notice for an entry, made under the act of June 11, 1906, the following indorsement on the copy of final proof notice will be used:

> This entry was initiated under the act of June 11, 1906, and no report will be made by the Forest Service, as the Department of Agriculture has no authority to examine and report on this class of claims.

The indorsement will be dated and signed by the Forest supervisor, and a copy of the final-proof notice will be promptly returned to the Register and Receiver before the date of final proof. The Forest supervisor will also send two copies of the final-proof notice bearing the indorsement to the District Forester. Upon receipt of these copies the District Forester will send one copy to the Chief of Field Division with the notation dated and signed by him, that for the reason given in the supervisor's indorsement no report will be transmitted.

When a request from the Commissioner of the General Land Office for a report covers a claim, initiated under the act of June 11, 1906, the District Forester will send a letter, in duplicate, to the Chief of Field Division, with appropriate reference to the Commissioner's request, stating that the entry was initiated under the act of June 11, 1906, and, therefore, no report will be made by the Forest Service, as the Department of Agriculture has no authority to examine and report upon this class of claims.

Procedure in Squatter Claims—

All squatter claims of doubtful validity should be subject to the following procedure:

A report on the usual form, supported by affidavits, should be sent to the District Forester before the plat of survey of the township in which the claim is situated is filed in the local land office. This report will be submitted in ample time to allow

of its examination by the District Forester, and if found to be adverse it will then be sent to the proper Chief of Field Division with the request that a protest be filed against the claimant's application to enter the land when the plat of survey is filed. In this way issue will be joined on the question of the applicant's right to make entry of the land involved. A hearing will be ordered if found warranted by the Interior Department, and the respective rights of the claimant and the Government adjudicated as in other cases.

It is believed that this procedure will dispose of this class of cases in a manner more expeditious and economical both to the claimant and the Government.

Settlement: Application to List Land Covered by Entry of Record—

When an application is presented for the listing of a tract of land, under the act of June 11, 1906, which is covered by a homestead or any other entry, selection, location, or filing, such application will be rejected and the applicant informed that lands having such status are not subject to listing under that act and that his rejected application will receive no further consideration. The District Forester will also advise him that should the entry, selection, location, or filing be removed and the tract restored to the Forest, its listing thereafter can be obtained only by the filing of new applications, the priority of which will be determined by the order in which they are received, provided that if an application is made by one who has secured the cancellation of the entry, selection, location, or filing covering the tract, the listing of which is sought, that fact will be certified to the Secretary of the Interior, together with the names of other applicants, if any.

Where land covered by a June 11 application is also covered by a mineral application, the June 11 application should be suspended until the claim has been examined by a mining expert, a report made, and the validity of the mining claim passed upon by the Department of the Interior. In cases in which a mineral application has not been made, and in which existing mining locations do not appear to have been made in good faith, if the land is of undoubted agricultural value and more valuable for agriculture than for Forest purposes, the applicant should be informed that part of the land is covered by a mineral location, and that the listing of the land as agricultural will have no bearing upon the determination of the questions which may arise in a contest before the Interior Department between mineral and agricultural claimants; and the applicant should be asked whether, under these circumstances, he desires to exercise his homestead right on the land. If the answer is in the affirmative, the land should be recommended for listing. (Circular Letter L—Service, Settlement of February 27, 1911.)

Settlement; Exceptions for Roads—

In listing land under the Act of June 11, 1906, where it is necessary in the judgment of the District Forester to protect National Forest interests or the interest of the public at large, that a passage on or across said land should be reserved, the reservation will be accomplished by excepting a strip of land of sufficient width for a highway from the restoration. Where such strip of land is excepted from the area listed, two copies of a blueprint showing the courses and distances of lines bounding such excepted area should accompany the listing letter. The location of the excepted strip should also be shown on map, report Form 110. The blueprints and the showing

on Form 110 will accompany the listing letter whether the area listed is described by metes and bounds or is a legally surveyed subdivision. The listing letter containing such exception should be in the following language:

The Honorable the SECRETARY OF THE INTERIOR.

SIR: I have the honor to request that the following land (List No. —) in the ——— National Forest ———, be open to settlement and entry in accordance with the Act of June 11, 1906 (34 Stat., 233):

Township ———, Range ———, ——— Meridian,
Section ———,
——— Land District,

except a strip of land 30 feet wide within the exterior boundaries thereof, which strip is particularly described as follows:

(Describe the place of beginning with bearing points) extending thence 15 feet on each side of a line running (give courses and distances to the place where the end of the strip closes on the boundary line of the tract listed), said excepted strip containing ——— acres. The net acreage hereby listed for entry is ——— acres.

——— ——— applied on ———
——— ——— applied on ———

It is recommended that entry be allowed pursuant to the suggestions in your letter ("A" 102902–10) of January 20, 1911, addressed to this Department.

Two copies of blueprints showing the excepted area are inclosed.

I have the honor to be, sir, very respectfully, your obedient servant,

———,
Secretary.

Inclosures.

A report should be made in each case whether the excepted strip is for an existing established public highway or road or for a proposed new road, and if the latter the reasons for the exception should be stated.

Where necessary to except a strip of greater width than 30 feet an explanation should accompany the draft of the listing letter to the Forester. (See "L, Service, Settlement" letters, February 8, 1911, March 7, 1911, March 9, 1911, and April 7, 1911.)

Settlement: Exception for Roads, Notice to Applicant Act of June 11, 1906—

In all cases where a tract is listed under the act of June 11, 1906, and a strip of land is excepted from entry, District Forester will notify the applicant that, on submission of final proof, he will be required by the General Land Office to have surveyed the boundary lines of the strip excepted. The survey of the excepted land will be in addition to the survey required to be made of the tract entered. No survey will be required by the General Land Office of previously established lines of official survey which may form in part the boundary of the tract entered, the survey of the excepted strip in such cases being sufficient.

Settlement: Lands within Abandoned Military Reservations—

November 19, 1910, the Secretary of the Interior decided, with reference to abandoned military reservations containing more than 5,000 acres, that applicants under the act of June 11, 1906, for the listing of areas within such reservations, will be required to pay the appraised price of such lands in addition to the customary filing fees. District Foresters will inform any applicants, upon filing an application for such lands, of this fact. (Circular Letter L—Service Settlement of February 16, 1911.)

Settlement: Lands Valuable for Coal—

In listing lands under the act of June 11, 1906, where areas are embraced which have been withdrawn or classified under the act of June 25, 1910, as coal land, or are valuable for coal, the following language should form the first paragraph of the listing letter:

> I have the honor to request that the following described land (List ——) in the ——— National Forest be open to settlement and entry in accordance with the Act of June 11, 1906 (34 Stat., 233), and with the Act of June 22, 1910 (36 Stat., 583), reserving to the United States Government all right and title to any coal deposits that may exist beneath the surface.

Settlement: Closing Cases in Supervisors' Offices—

In view of the decision of the Solicitor that lands listed by the Secretary of Agriculture with the Secretary of the Interior under the act of June 11, 1906, cease to be parts of the National Forests, settlement cases should be closed in the supervisors' offices upon the receipt of signed carbons of the listing letters. The practice of awaiting the receipt of notice opening the land to settlement and entry before closing the case will be discontinued.

Stations: Withdrawal under the Act of June 25, 1910—

Since withdrawal, under the act of June 25, 1910, will not give lands within National Forests any better protection than the Forest withdrawal affords, areas desired for ranger station purposes inside National Forests will not be recommended for withdrawal. A limited number of the areas most urgently needed for administrative sites outside National Forests will be recommended for withdrawal under the above act. (Circular Letter L—Service, Station, December 31, 1910.)

Stations: Statement as to Power Value—

Pursuant to the request of the Secretary of the Interior of March 8, 1911, the form of release letter, sent to District Foresters on September 8, 1910, to be used when recommending the revocation of administrative withdrawals is amended so as to include an additional paragraph, giving any information available in this Department with respect to the power value of the areas recommended for release. (Circular Letter L—Service, Stations, of March 11, 1911.)

Rights of Way Stipulations—

A form of stipulation for use in rights of way cases (railroads and irrigation) referred to Forest Service by the Department of the Interior has been approved and will be printed at once. Copies will be sent to the District Foresters for their use in handling such cases.

Special Uses and Easements—

On March 18, the Secretary of Agriculture approved regulations for the occupancy and use of National Forest land under "Special Use Permits." The regulations and the procedure and instructions thereunder, as well as the instructions respecting rights of way cases referred by the Department of the Interior to the Forest Service for consideration, will be printed in a circular as soon as practicable and sent to the Supply Depot for distribution.

Indian Allotments—

Section 31 of the act of June 25, 1910 (36 Stat., 855) provides:

> That the Secretary of the Interior is hereby authorized, in his discretion, to make allotments within the national forests in conformity with the general allotment laws as amended by section seventeen of this act, to any Indian occupying, living on, or having improvements on land included within any such national forest who is not entitled to an allotment on any existing Indian reservation, or for whose tribe no reservation has been provided, or whose reservation was not sufficient to afford an allotment to each member thereof. All applications for allotment under the provisions of this section shall be submitted to the Secretary of Agriculture, who shall determine whether the lands applied for are more valuable for agricultural or grazing purposes than for the timber found thereon; and if it be found that the lands applied for are more valuable for agricultural or grazing purposes, then the Secretary of the Interior shall cause allotment to be made as herein provided.

The Secretary of the Interior has prepared proper regulations and forms for administering this Act, which have been approved by the Secretary of Agriculture. Printed copies will be sent to all the District Foresters, from whom they may be obtained by such supervisors and other persons as have need for them. It is probable that very few allotments will be made outside of the States of California and Washington, since most of the other Indians have been provided with a reservation. It should be noted that allotments under this Act can only be made to an Indian who is not entitled to an allotment on any existing reservation or for whose tribe no reservation has been provided, or whose reservation was not sufficient to afford an allotment to each member thereof.

SERVICE PUBLICATIONS ISSUED IN JANUARY, FEBRUARY, AND MARCH

Circular 58—Red Oak (Revised).

Unnumbered Circular—Light Burning in California Forests.

Unnumbered Circular—Purchase of Land Under Weeks Law in Southern Appalachian and White Mountains.

CUMULATIVE INDEX SERVICE NOTES AND ORDERS

(JULY–JANUARY)

[Numbers in parentheses after the month indicate page]

Act of June 11, 1906, application, conflict of mining claim with; October (67).
Atlas folios, correcting; October (64).
requests for binding; October (64).

Boundaries and areas, changes in; July (33); October (64); January (95).

Carbons sent for information, omission of initialing on; October (64).
Chaparral, California, regarding nomenclature of; October (61).

Claims agreement, revised cooperative; January (100).
cases, procedure in the conduct of; July (35); October (66).
conflict of mining, with a June 11, 1906, application; October (67).
instructions under cooperative agreement of November 25, 1910; January (97).
relinquishment of; October (67).
Correspondence with other bureaus; January (102).
Damages for destruction of young growth awarded; October (61).
measure of, in innocent timber trespass case; October (62).
Dendrological specimens, full data with; October (61).
Employees killed or injured in forest fires; January (96).
Examination of Forest homestead applications; July (38).
Field Program to be published quarterly; July (32).
Final-proof notices and requests; January (99).
disposition of; October (68).
modification in indorsement of; January (99).
Fire trespass by C., B. & Q. R. R.; January (93).
case, complaint filed; October (62).
indicted for; January (93).
Fires, forest, employees killed or injured in; January (96).
Forage plants, identification of grasses and; July (35).
Form 2, revised, to supplant Form 143; July (33).
143, supplanted by Form 2, revised; July (33).
321, discontinued; July (34).
321a, originated; July (34).
322, revised; July (34).
323, revised; July (34).
861 and 861-G; revised; July (32).
979, requisitions for; July (34).
Fountain pens at Ogden; October (63).
General Order 140 of Secretary of Agriculture; July (32).
Grasses and forage plants, identification of; July (35).
Grazing trespass, arrested for; October (63).
case settled; October (63).
indictments returned; January (92).
settlement; July (32).
Homestead applications, examination of Forest; July (38).
Horse feed, maximum sum for; January (96).
Identification of grasses and forage plants; July (35).
Initialing, omission of, on carbons sent for information; October (64).
Injunction against Telluride Power Co., application for; January (93).
Insect infestation, letters on; July (34).
Lands, effect of eliminations upon listed; October (68).
reconveyed to Untied States under lieu selection; January (102).
relative preference rights to listed; January (96).

Letters, papers to accompany drafts of list; October (68).
Lieu selection, lands reconveyed to United States under; January (102).
Mining claim, conflict of, with a June 11, 1906, application; October (67).
saloon location on; January (92).
National Forests, changes in boundaries and areas of; July (33); October (64).
Papers to accompany drafts of list letters; October (68).
Pay-roll forms, revision of; July (33).
Permits, water-power; January (96).
Political activity and political assessments or contributions; January (93).
Preference rights to listed lands; January (96).
Preparation of papers, care in; July (34).
Proclamations and diagrams, distribution of: October (65).
supplies of; October (65).
Reconnaissance forms; July (34).
Refunds in supposed timber-trespass cases; October (62).
Requisitions for Form 979; July (34).
Reward, notice of; October (69).
Saloon location, mining claim does not permit; October (62).
on mining claim; January (92).
School sections, authority to sell timber from unsurveyed; January (92).
Settlement: Effect of eliminations upon lands listed; October (68).
Settlers on restored areas; July (38).
Signs, making and posting of; October (63).
Solicitor, duties of, in connection with Forest Service; July (32).
Timber, authority to sell from unsurveyed school sections; January (92).
sale; United States intervener; January (93).
trespass, criminal; January (92).
Transportation requests; July (33).
Trespass case, fire, complaint filed; October (62).
cases, measure of damage in innocent; October (62).
refunds in supposed; October (62).
fire, by the C. B. & Q. R. R.; January (93).
indicted for; January (93).
grazing, arrested for; October (63).
case of U. S. *v.* Joe Calscarta; October (63).
Anestaria Gabiala; October (63).
settled; October (63).
settlement of, by Diteman and Rennie; July (32).
indictments returned; January (92).
timber, criminal; January (92).
Uniform, Forest Service; January (96).
Ware for camp use, tin or granite; October (63).
Water-power permits; January (96).

O

Walter Mulford

Issued July 15, 1911.

UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.

HENRY S. GRAVES, Forester.

July Field Program, 1911.

This program of field work and assignments in the Forest Service is issued quarterly on the 15th day of July, October, January, and April, and is for the exclusive use of members of the service and cooperating bureaus. The names of members whose assignments are not yet fixed and reference to projects for which plans have not been matured are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

OFFICE OF THE FORESTER.

HENRY S. GRAVES, Forester.
ALBERT F. POTTER, Associate Forester.

HERBERT A. SMITH, editor.
FINDLEY BURNS, in charge of technical review.
GEORGE B. SUDWORTH, dendrologist.
CLAYTON D. MELL, assistant dendrologist.
W. D. BRUSH, assistant in dendrological laboratory.
H. P. BROWN, assistant in dendrological laboratory.
G. E. WHARTON, compilation of forest distribution data.
W. H. LAMB, scientific assistant in forest distribution.
EUGENE S. BRUCE, expert lumberman.
D. D. BRONSON, general inspector.

ACCOUNTS.

Division of Accounts and Disbursements (Forest Service Branch).
M. E. FAGAN, Chief of Office of Accounts; E. A. MELZAR, assistant chief.

1438—11—1

OPERATION.

JAMES B. ADAMS, Assistant Forester, in charge; FRANKLIN W. REED, forest inspector; GEORGE G. ANDERSON, assistant in office methods.

GEOGRAPHY.—FRED G. PLUMMER, chief.

ATLAS.—G. B. BRUCE.

DRAFTING.—C. A. KOLB.

PHOTOGRAPHY.—A. G. VARELA.

MAINTENANCE.—GEORGE A. BENTLEY, chief.

SILVICULTURE.

W. B. GREELEY, Assistant Forester, in charge (in the field); EARLE H. CLAPP, forest inspector.

STATE COOPERATION.—J. G. PETERS, chief (in the field); J. H. FOSTER, assistant chief.

NORTHEAST.—Inspection of State cooperative fire protection work under the Weeks law—J. G. Peters, Washington, D. C.

SOUTHERN STATES.—Study of Appalachian species, with special reference to yield of second-growth stands—W. W. Ashe, Washington, D. C.

Collaborators, State cooperative fire protection under the Weeks law—E. M. Griffith, State forester, Madison, Wis.; E. C. Hirst, State forester, Concord, N. H.; A. F. Hawes, State forester, Burlington, Vt.; William T. Cox, State forester, St. Paul, Minn.; Frank E. Mace, land agent and forest commissioner, Augusta, Me.; C. P. Wilber, State fire warden, Trenton, N. J.; F. W. Besley, State forester, Baltimore, Md., S. N. Spring, State forester, New Haven, Conn.

SILVICS.—RAPHAEL ZON, chief; S. T. DANA, assistant chief (in the field).

Forest regions of the United States with special reference to the laws of their distribution—Raphael Zon.

Fundamental laws of tree growth—Raphael Zon.

Inspection of fieldwork and establishment of forest experiment stations—Raphael Zon and S. T. Dana.

Comparative rapidity of growth of forest trees—W. B. Barrows.

Results of seeding and planting in the East—C. R. Tillotson, W. B. Barrows, and A. W. Williamson.

Seed testing and storage experiments—C. R. Tillotson.

Study of beech, birch, and maple in the Northeast—E. H. Frothingham.

Remeasurement of permanent sample plots—W. D. Sterrett.

Basket-willow investigations—G. N. Lamb.

COMPUTING.—W. B. BARROWS.

LIBRARY.—MISS H. E. STOCKBRIDGE.

FOREST MANAGEMENT IN THE EAST.—L. S. MURPHY, acting in charge.

Examination of private forest lands.—A. W. Williamson, Washington, D. C.

NORTHEAST.—Preparation of report on red spruce in second-growth stands.—L. S. Murphy, Washington, D. C.

GRAZING.

A. F. POTTER, Associate Forester, in charge; L. F. KNEIPP, assistant forester.

Forage investigations; compilation of data.—F. V. Coville, botanist, Bureau of Plant Industry, in charge, Washington, D. C.; investigation of methods of range control and restoration of overgrazed ranges, James T. Jardine, inspector of grazing, Ogden. Utah; Arthur T. Sampson and William A. Dayton, plant ecologists, Wallowa, Oreg. (detailed to Bureau of Plant Industry under instructions of F. V. Coville, botanist).

Range reconnaissance.—District 1—Deerlodge National Forest.—Charles E. Fleming, Anaconda, Mont. District 2—Medicine Bow Natural Forest.— Lynn H Douglas, Laramie, Wyo. District 3—Coconino National Forest.—Robert R. Hill, Flagstaff, Ariz. District 4—Targhee National Forest.—Alfred E. Aldous, St. Anthony, Idaho.

LANDS.

JAMES B. ADAMS, Assistant Forester, in charge; O. C. MERRILL, chief engineer; F. H. FOWLER, engineer.

OCCUPANCY.—CHARLES H. SQUIRE, in charge.

CLAIMS.—J. I. PARKER, in charge.

PRODUCTS.

McGARVEY CLINE, in charge, Madison Wis.

FOREST PRODUCTS LABORATORY.—(In cooperation with the University of Wisconsin, Madison, Wis.) McGARVEY CLINE, director; H. S. BRISTOL, assistant director; HOWARD F. WEISS, assistant director.

MAINTENANCE.—WM. H. KEMPFER, in charge.

CHEMISTRY AND DISTILLATION.—L. F. HAWLEY, in charge.

The classification of authentic creosotes according to their chemical and physical properties.—E. Bateman.

Study of the production of ethyl alcohol from wood waste.—F. W. Kressmann.

The investigation of specifications for gum terpentine.—A. W. Schorger.

Experiments to determine the penetrance of caustic soda solution into aspen.—F. W. Kressmann.

Standardization of commercial ground-wood pulp samples.—E. Bateman.

Refining and grading of wood terpentine.—L. F. Hawley.

Experiments in distillation of wood.—L. F. Hawley; assistant, R. C. Palmer.

Experiments in distillation of hardwood.—L. F. Hawley; assistant, R. C. Palmer.

ENGINEERING.—ROLF THELEN and A. L. HEIM, in charge.

Study of the modern sawmill.—Rolf Thelen.

Study of the use of wood in gas producers.—C. T. Barnum.

PULP AND PAPER.—H. E. SURFACE, in charge.

Experiments to determine the suitability of jack pine and tamarack for the production of chemical pulp.—H. E. Surface.

Experiments to determine the suitability of mill waste from lumber mills of the Madera Co. (Ltd.), Madera, Chihuahua, Mexico, for the production of chemical pulp.—H. E. Surface.

Experimental study of the fundamental variable cooking conditions in the soda process.—H. E. Surface.

TIMBER PHYSICS.—H. D. Tiemann, in charge.

Construction of an experimental dry kiln at Cairo, Ill., in cooperation with the Pioneer Pole & Shaft Co.—H. D. Tiemann; assistant, Charles Leigh.

The preparation of microscopic slides of the principal commercial woods in the United States.—Miss Eloise Gerry.

Preparation of photo-micrographs of American woods.—Simon Kirsch.

The analytical study of the artificial methods of drying wood in an experimental cylinder.—H. D. Tiemann; assistant, Frederick Dunlap.

TIMBER TESTS.—J. A. NEWLIN, in charge.

Standard tests on oak and ash from the Ozark National Forest.—T. C. R. Wilson, assistant, T. Lyons.

Strength tests on cross-arms, in cooperation with the American Cross-Arms Co. and the John L. Roper Lumber Co.—J. A. Newlin.

WOOD PRESERVATION.—F. M. BOND, in charge.

Fungicidal properties of coal-tar creosote fractions.—C. H. Teesdale.

The efficiency of various fractions of coal-tar creosote in protecting southern yellow pine from marine borers.—C. H. Teesdale.

Service tests on red oak and maple crossties in cooperation with the Chicago Milwaukee & St. Paul Railway Co. to determine the relative efficiency of standard preservatives and processes.—F. M. Bond.

The relative resistance of woods to injection with creosote.—C. H. Teesdale.

Standard tests on the chemical, physical, fungicidal, and inflammable properties of various wood preservatives.—L. Witt.

Experiments on mechanical operative features of pressure wood-preserving; plants.—E. W. Peters.

The preservative treatment of jack pine for posts, poles, etc.—F. M. Bond.

WAUSAU LABORATORY.—J. H. THICKENS, in charge.

Experiments to determine the suitability of jack pine and eastern hemlock for the manufacture of ground-wood pulp.—J. H. Thickens and G. H. McNaughton, Wausau, Wis.

PATHOLOGY (in cooperation with the Bureau of Plant Industry).—C. J. HUMPHREY, in charge.

Toxicity of preservatives with pure cultures.—C. J. Humphrey.

Rate of decay of wood and the efficiency of various wood preservatives (fungus pit tests).—C. J. Humphrey.

Moisture per cents at various points in posts; also the effect of beveling the tops of posts.—M. C. Jensen.

WOOD UTILIZATION.—H. S. SACKETT, in charge, Fisher Building, Chicago, Ill.

[The figures in the studies below indicate the number of the project.]

Collection of wholesale lumber prices.—C. F. Hatch, Fisher Building, Chicago, Ill.

Study of woods which may be used as substitutes for the southern junipers in the manufactures of lead pencils (14).—H. S. Sackett, Fisher Building, Chicago, Ill.

Study of the woods which may be used in the manufacture of bobbins and shuttles (16).—H. S. Sackett, Fisher Building, Chicago, Ill.

Study of the methods of hickory manufacture and utilization (21).—C. F. Hatch, Fisher Building, Chicago, Ill.

Study of the wood-using industries of Louisiana (28).—Hu Maxwell, Fisher Building, Chicago, Ill.

Study of the wood-using industries of Missouri (29).—C. F. Hatch, Fisher Building, Chicago, Ill.

Studies of the wood-using industries of Michigan (30).—J. C. Nellis, Fisher Building, Chicago, Ill.

Study of the wood-using industries of Arkansas (31).—John T. Harris, Fisher Building, Chicago, Ill.

Study of the effect of freight rates on the disposition of low-grade lumber.—H. S. Sackett, Fisher Building, Chicago, Ill.

Study of hardwood inspection rules.—John T. Harris, Fisher Building, Chicago, Ill.

Investigation of shipping weights, in the log, of various hardwoods.—C. W. Gould, Fisher Building, Chicago, Ill.

Study of markets for products of wood distillation.—John T. Harris, Fisher Building, Chicago, Ill.

Investigation of the markets and use of osage orange with reference to its available supply.—Hu Maxwell, Fisher Building, Chicago, Ill.

WASHINGTON OFFICE.—O. T. SWAN, in charge.

Preparation of the annual statistical reports on the forest products of the United States in cooperation with the Bureau of the Census.—O. T. Swan and A. H. Pierson.

Inspection of the treated fence posts set in cooperation with the Maryland Agricultural College in 1909.—O. T. Swan.

Testing and improving experimental types of pole-treating plants in cooperation with the Public Service Corporation of New Jersey.—O. T. Swan.

The utilization of sawmill waste by cooperation with wood-using industries.—R. E. Simmons.

Study of the wood-using industries of New Hampshire in cooperation with the State.—R. E. Simmons.

Investigation of lumber waste in building scaffolding and the introduction of new methods.—O. T. Swan.

ACQUISITION OF LAND UNDER THE WEEKS LAW.

WM. L. HALL, Assistant Forester, in charge, Washington, D. C.; CLYDE LEAVITT, forest inspector.

Examination of lands in the White Mountains.—A. K. Chittenden, forest inspector; K. W. Woodward and E. D. Fletcher, forest examiners; D. W. Martin, forest assistant, and party.

Examination of lands in Virginia and West Virginia.—R. C. Bryant and C. D. Cushing, experts; E. D. Clark, forest assistant, and party.

Examination of lands in North Carolina.—D. W. Adams, lumberman; R. Clifford Hall, forest assistant, and party.

Examination of land in South Carolina and Georgia.—W. W. Ashe and Verne Rhoades, forest examiners, and party.

DISTRICT 1.

Montana, northeastern Washington, northern Idaho, northwestern South Dakota, northern Michigan, northern Minnesota, and southwestern North Dakota. Office, Hammond Block, Missoula, Mont.

F. A. SILCOX, district forester; E. W. KRAMER, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). W. C. HENDERSON, assistant to the solicitor, in charge; HAROLD H. CLARKE, assistant to the solicitor.

ACCOUNTS.—JOHN A. URBANOWICZ, district fiscal agent.

MAINTENANCE.—R. J. MOORE.

OPERATION.—J. F. PRESTON, assistant district forester.

SILVICULTURE.—R. Y. STUART, assistant district forester.

TIMBER SALES, assistant district foresters in silviculture; Austin Cary, forest expert.

MONTANA.—Reconnaissance, Deerlodge National Forest—J. S. Baird, lumberman, in charge, Anaconda.

PLANTING, H. H. Farquhar, forest assistant, in charge.

SILVICS, F. I. Rockwell, forest assistant, in charge.

Yield tables, lodgepole stands.—C. N. Whitney, Anaconda, Mont.

Yield tables, white-pine stands (compilation of data).—F. I. Rockwell, Missoula, Mont.

Preliminary plans for the establishment of a district experiment station.—F. I. Rockwell, Missoula, Mont.

Cooperation, Bureau of Entomology.

Location of insect-infested timber and determination of methods of local control.—Josef Brunner, field agent, Bureau of Entomology, Columbia Falls, Mont.

GRAZING.—C. H. ADAMS, assistant district forester.

LANDS.—R. H. RUTLEDGE, assistant district forester; JOHN D. JONES, assistant.

PRODUCTS.—P. R. HICKS, engineer in wood preservation.

Timber tests.—Collection of material for tests on lodgepole pine telephone poles in cooperation with district 2.

Wood preservation.—Experimental operation of a pole-treating plant in cooperation with the Anaconda Copper Mining Co. for the preservative treatment of lodgepole-pine poles.

Preparation of report showing location of creosoted ties and mine timbers treated in cooperation with Anaconda Copper Mining Co.

Preparation of first inspection report on the treated mine timbers, in the Bunker Hill and Sullivan and Hercules mines at Kellogg and Burke, Idaho.

Study of western larch as a wood paving material.

Wood utilization.—Study of modern milling methods.

Study on the closer utilization of western larch butts.

Study of kiln-drying of western larch.

NATIONAL FORESTS.

IDAHO.

Beaverhead.—See Montana.

Clearwater.—CHARLES A. FISHER, forest supervisor, Orofino (WU-Am); W. B Willey, forest assistant.

Coeur d'Alene.—ROSCOE HAINES, acting forest supervisor, Wallace (WU-Am); W. W. Morris and Donald R. Bruce, forest assistants; C. H. Gregory, lumberman.

Kaniksu.—See Washington.

Nezperce.—GEORGE V. RING, forest supervisor, Grangeville (WU-Am); J. Arthur Brown, deputy forest supervisor.

Pend Oreille.—J. E. BARTON, forest supervisor, Sandpoint (WU-Am, N, W); Charles F. Howell, deputy forest supervisor; James R. Gillis, forest assistant.

Selway.—FRANK A. FENN, forest supervisor, Kooskia (WU-N); Edward C. Thenon, deputy forest supervisor.

St. Joe.—THOMAS C. SPAULDING, forest supervisor, St. Maries (Continental-WF); Edward A. Holcomb, deputy forest supervisor; Donald R. Brewster, forest assistant.

MICHIGAN.

Marquette.
Michigan. —W. B. PIPER, forest supervisor, Au Sable (WU-Am).

MINNESOTA.

Minnesota.—G. E. MARSHALL, forest supervisor, Cass Lake (WU-Am, GN); J. St. J. Benedict, forest assistant.

Superior.—J. A. FITZWATER, forest supervisor, Ely (WU-GN).

MONTANA.

Absaroka.—V. GIFFORD LANTRY, forest supervisor, Livingston (WU-Am, N); John M. Bedford, forest assistant.

Beartooth.—GLEN A. SMITH, forest supervisor, Billings (WU-Am, N).

Beaverhead.—C. K. WYMAN, forest supervisor, Dillon (WU-Am); George E. Martin, deputy forest supervisor; Charles R. Clark, forest assistant.

Bitteroot.—W. W. WHITE, forest supervisor, Missoula (WU-Am, N); M. N. Stickney, deputy forest supervisor; Abbott B. Silva, forest assistant.

Blackfeet.—R. P. MCLAUGHLIN, acting forest supervisor, Kalispell (WU-Am, GN); J. A. Larsen, forest assistant.

Cabinet.—RALPH H. BUSHNELL, forest supervisor, Thompson Falls (WU-Am, N); Claude W. Griffin, deputy forest supervisor.

Custer.—KNOX MCANALLY, forest supervisor, Ashland (WU via Crow Agency-Am, N via Forsyth); Edgar F. White, forest assistant.

Deerlodge.—D. T. MASON, forest supervisor, Anaconda (P-Am, N); F. M. Patton, deputy forest supervisor; C. N. Whitney, forest assistant.

Flathead.—PAGE S. BUNKER, forest supervisor, Kalispell (WU-Am, GN); John H. Clack, deputy forest supervisor; J. L. Cobbs, forest assistant.

Gallatin.—D. T. CONKLING, forest supervisor, Bozeman (WU-Am, N).

Helena.—J. B. SEELY, forest supervisor, Helena (WU-Am, N); J. D. Warner, deputy forest supervisor; Warren F. Hale, forest assistant.

Jefferson.—WALLACE S. PERRINE, forest supervisor, Great Falls (WU-Am, N); Wellman Holbrook, deputy forest supervisor.

Kootenai.—DORR SKEELS, forest supervisor, Libby (WU-Am, GN); William A. Raymond, deputy forest supervisor; Webster H. Ransom and William C. Latane, forest assistants.

Lewis and Clark.—SCOTT LEAVITT, forest supervisor, Chouteau (WU via Collins-Am, GN via Collins); A. A. Saunders, forest assistant.

Lolo.—ELERS KOCH, forest supervisor, Missoula (WU, P-Am, N); E. C. Clifford and Reuben P. Prichard, forest assistants.

Madison.—CLIFTON W. HUDSON, forest supervisor, Sheridan (WU-Am, N); Joseph W. Butler, forest assistant.

Missoula.—D. G. KINNEY, forest supervisor, Missoula (WU, P-Am, N); Rutledge Parker, deputy forest supervisor.

Sioux.—See South Dakota.

NORTH DAKOTA.

Dakota.—C. A. BALLINGER, forest supervisor, Camp Crook, S. Dak. (WU via Bellefourche-Am via Bellefourche).

SOUTH DAKOTA.

Sioux.—C. A. BALLINGER, forest supervisor, Camp Crook (WU via Bellefourche-Am via Bellefourche).

WASHINGTON.

Kaniksu.—W. N. MILLAR, forest supervisor, Coolin, Idaho (WU via Priest River-Am, GN, Priest River); N. C. Brown, deputy forest supervisor.

DISTRICT 2.

Colorado, Wyoming, South Dakota, Nebraska, and western Kansas. Office, Majestic Building, Denver, Colo.

SMITH RILEY, district forester; T. W. NORCROSS, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). GEORGE E. TROWBRIDGE, assistant to the solicitor, in charge; J. F. LAWSON, assistant to the solicitor.

ACCOUNTS.—H. J LOVING, district fiscal agent.

OPERATION.—FRED W. MORRELL, assistant district forester.

MAINTENANCE, ALFRED C. ANDERSON.

SILVICULTURE.—S. L. MOORE, assistant district forester.

TIMBER SALES, assistant district forester in Silviculture.

PLANTING, JOHN BENTLEY, jr.

WYOMING.—Supervision of the construction of a mechanical seed-extracting plant for lodgepole pine, on the Medicine Bow National Forest—C. G. Bates, Foxpark.

SILVICS, C. G. BATES.

Study of tree diseases.—Carl Hartley, consulting pathologist, Denver, Colo.

COLORADO.—Examination of silvical sample plots on National Forests—C. G. Bates, Denver.

COLORADO AND WYOMING.—Institution of mensuration studies in connection with reconnaissance on National Forests—J. H. Potts, Denver, Colo.

COLORADO.—Fremont Experiment Station. Continuation and extension of experiments begun in 1910, and institution of new experiments—Wade R. Martin, Manitou.

Wagon Wheel Gap Experiment Station. Streamflow and meteorological measurements, in cooperation with B. C. Kadel, of the Weather Bureau. Institution of silvical experiments and ecological studies.

Changes in method of measuring streamflow, and preparation of type maps for the watersheds—John Murdoch, jr., and G. R. Morrison, Wagon Wheel Gap.

GRAZING.—J. W. NELSON, assistant district forester.

LANDS.—C. J. STAHL, assistant district forester.

PRODUCTS.—H. S. BETTS, assistant district forester.

TIMBER TESTS.—Timber-testing laboratory in cooperation with the University of Colorado, Boulder, Colo.—N. de W. Betts, in charge.

Tests on lodge-pole pine telephone poles cut green and seasoned.

Report on results of tests on small pieces cut from red cedar, lodge-pole pine, and Engelmann spruce telephone poles.

Standard tests on the commercial species found in district 2.

WOOD PRESERVATION.—Inspection of metal mines in Ouray district, southern Colorado, to determine feasibility of treating mine timbers—H. M. Mason, jr., and H. S. Betts.

Installation of cooperative open-tank treating plant at Agricultural College, Fort Collins, Colo.—H. M. Mason, jr.

WOOD UTILIZATION.—Turpentine experiments in Arizona and Colorado—H. S. Betts and H. M. Mason, jr.

Preparation of preliminary report on utilization of dead timber—N. de W. Betts and H. S. Betts.

NATIONAL FORESTS.

COLORADO.

Arapaho.—ARTHUR M. COOK, forest supervisor, Fraser (WU-Ad); Alva A. Simpson, deputy forest supervisor; Arthur T. Upson, forest assistant.

Battlement.—JOHN W. LOWELL, jr., forest supervisor, Collbran (WU-WF, G).

Cochetopa.—EUGENE WILLIAMS, forest supervisor, Saguache (WU-G); Charles P. Bliss, forest assistant.

Colorado.—H. N. WHEELER, forest supervisor, Fort Collins (WU-WF); Harold C. Clark, forest assistant.

Durango.—ERNEST W. SHAW, forest supervisor, Durango (WU-G); John C. De Camp, forest assistant.

Gunnison.—WILLIAM R. KREUTZER, forest supervisor, Gunnison (WU-WF, G); E. C. Berky, deputy forest supervisor; W. H. Mast, forest assistant.

Hayden.—See Wyoming.

Holy Cross.—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU-WF, G); Albert H. Miller, deputy forest supervisor.

La Sal.—See Utah, district 4.

Leadville.—THEODORE SHOEMAKER, forest supervisor, Leadville (WU, P-WF, G); R. E. Clark, deputy forest supervisor; J. E. Martin, forest assistant.

Montezuma.—RESS PHILLIPS, forest supervisor, Mancos (WU-G); Frank B. Notestein, forest assistant.

Pike.—C. W. FITZGERALD, forest supervisor, Denver (WU, P-Ad, Am, G, US, WF) George A. Duthie, deputy forest supervisor; W. I. Hutchinson, forest assistant; Monument Nursery—Henry G. Reinsch, forest expert; W. Schrader, forest planting assistant, Monument.

Rio Grande.—W. J. MORRILL, forest supervisor, Monte Vista (WU-G); Walter F. Bowers, deputy forest supervisor; Jay Higgins, forest assistant.

Routt.—J. H. RATLIFF, forest supervisor, Steamboat Springs (WU-Ad); Ray Peck, deputy forest supervisor; P. J. Paxton, forest assistant.

San Isabel.—J. N. LANGWORTHY, forest supervisor, Westcliffe (WU-G); M. B. Willey, deputy forest supervisor; Albin G. Hamel, forest assistant.

San Juan.—A. L. SWEITZER, forest supervisor, Pagosa Springs (WU-G); Peter Keplinger, forest assistant.

Sopris.—JOHN MCLAREN, forest supervisor, Aspen (WU-WF, G).

Uncompahgre.—HOWARD S. BUSHNELL, forest supervisor, Delta (WU-G); L. E. Cooper, deputy forest supervisor; J. H. Ramskill, forest assistant.

White River.—JAMES A. BLAIR, forest supervisor, Meeker (WU-WF, G); G. P. Bard, deputy forest supervisor; Crosby A. Hoar, forest assistant.

KANSAS.

Kansas.—B. R. H. D'ALLEMAND, forest supervisor, Garden City (WU, P-WF); Garden City Nursery.

NEBRASKA.

Nebraska.—R. G. PIERCE, acting forest supervisor, Halsey (WU-Ad); Halsey Nursery—C. R. Bechtle, forest planting assistant.

SOUTH DAKOTA.

Black Hills.—PAUL D. KELLETER, forest supervisor, Deadwood (WU-Ad, Am); William Wiehe, deputy forest supervisor; Seward D. Smith, forest assistant.

Harney.—R. P. IMES, forest supervisor, Custer (WU-Ad); Stephen V. Klem, forest assistant.

WYOMING.

Bighorn.—E. N. KAVANAGH, forest supervisor, Sheridan (WU-Ad); Andrew G. Stockwell, deputy forest supervisor; Earl S. Pierce, forest assistant.

Bonneville.—H. EARL FRENCH, forest supervisor, Dubois (WU-Am).

Bridger.—H. C. HALL, forest supervisor, Pinedale (WU-Am).

Hayden.—JAMES BLACKHALL, forest supervisor, Encampment (WU, P-Am); Roy S. Wheeler, forest assistant.

Medicine Bow.—C. M. GRANGER, forest supervisor, Laramie (WU, P-Am); R. A. Stretch, deputy forest supervisor; Leigh J. Young, forest assistant.

Shoshone.—R. W. ALLEN, forest supervisor, Cody (WU-Ad); Fred B. Agee, deputy forest supervisor.

Sundance.—LOUIS KNOWLES, forest supervisor, Sundance (WU-Ad, Am).

Washakie.—C. G. POOLE, forest supervisor, Lander (WU-Am).

DISTRICT 3.

Arizona, Arkansas, Florida, New Mexico, and Oklahoma. Office, Strickler-Luna Building, Albuquerque, N. Mex.

A. C. RINGLAND, district forester.

LAW.—Office of the Solicitor (Forest Service branch). BLAKE FRANKLIN, assistant to the solicitor, in charge; J. O. SETH, assistant to the solicitor.

ACCOUNTS.—J. J. DUFFY, district fiscal agent.

OPERATION.—A. O. WAHA, assistant district forester.

MAINTENANCE.—FRANK E. SCHNEIDER.

SILVICULTURE.—T. S. WOOLSEY, Jr., assistant district forester; A. B. RECKNAGEL, assistant district forester; R. L. ROGERS, forest supervisor, on detail.

FOREST INVESTIGATIONS.—G. A. PEARSON, in charge.

LUMBERING.—NELSON L. LE GRAND, in charge.

WORKING PLANS.—J. H. ALLISON, in charge.

ARIZONA.—Reconnaissance of the Sitgreaves National Forest—T. B. Longwell, in charge.

ARKANSAS.—Market study, check scaling, and examination of proposed timber sales, on the Arkansas National Forest—Athol A. Wynne, lumberman, Hot Springs.

NEW MEXICO.—Reconnaissance of the Gila National Forest—P. P. Pitchlynn, in charge.

Reconnaissance of the Jemez National Forest—George C. Morbeck, in charge.

Reconnaissance of the Carson National Forest—Raymond E. Marsh, in charge.

Fort Valley Experiment Station.—G. A. PEARSON, Flagstaff, Ariz., in charge.

GRAZING.—JOHN KERR, assistant district forester.

ARIZONA.—Reconnaissance of the Coconino National Forest—W. F. Hill, grazing examiner, in charge.

LANDS.—FRANK C. W. POOLER, assistant district forester; A. S. Peck, assistant district forester, special detail.

NATIONAL FORESTS.

ARIZONA.

Apache.—JOHN D. GUTHRIE, forest supervisor, Springerville (WU, P-WF); Frederick Winn, deputy forest supervisor; Clifford W. McKibbin, forest assistant.

Chiricahua.—A. H. ZACHAU, forest supervisor, Portal (WU, P-WF); Otto F. Swenson, forest assistant.

Coconino.—WILLARD M. DRAKE, forest supervisor, Flagstaff (WU, P-WF); J. C. Kircher, deputy forest supervisor; Quincy Randles and Max H. Foerster, forest assistants.

Coronado.—ROBERT J. SELKIRK, forest supervisor, Tucson (WU, P-WF).

Crook.—T. T. SWIFT, forest supervisor, Safford (WU-WF).

Prescott.—C. H. HINDERER, forest supervisor, Prescott (WU-WF); J. C. McNelty, deputy forest supervisor.

Sitgreaves.—HUGH G. CALKINS, forest supervisor, Snowflake (WU, P-WF); Chas. H. Jennings, deputy forest supervisor.

Tonto.—R. G. WILLSON, forest supervisor, Roosevelt (WU-WF).

Tusayan.—STANTON G. SMITH, forest supervisor, Williams (WU, P-WF); Harold Greene, deputy forest supervisor; Gordon T. Backus, forest assistant.

Zuni.—See New Mexico.

ARKANSAS.

Arkansas.—S. A. CHAPPELL, forest supervisor, Hot Springs (WU, P-WF, P); C. J. Heller, forest assistant.

Ozark.—FRANCIS KIEFER, forest supervisor, Harrison (WU-WF); Ralph C. Huey, deputy forest supervisor; L. L. Janes, forest assistant.

FLORIDA.

Florida.—I. F. ELDREDGE, forest supervisor, Pensacola; W. F. Hill, deputy forest supervisor; P. D. Edmunds, forest agent.

NEW MEXICO.

Alamo.—R. F. BALTHIS, forest supervisor, Cloudcroft (WU, P-WF); Thomas E. McCullough, forest assistant.

Carson.—C. C. HALL, forest supervisor, Tres Piedras (-G); Aldo Leopold, deputy forest supervisor; Ira T. Yarnall, forest assistant.

Chiricahua.—See Arizona.

Datil.—W. H. GODDARD, forest supervisor, Magdalena (WU, P-WF); Robert L. Deering, deputy forest supervisor; H. Basil Wales, forest assistant.

Gila.—DON P. JOHNSTON, forest supervisor, Silver City (WU, P-WF); Ausburn H. Douglas, deputy forest supervisor; Chas. A. Kissam, forest agent; Fort Bayard Nursery—H. C. Turner, forest planting assistant.

Jemez.—FRANK E. ANDREWS, forest supervisor, Santa Fe (WU, P-WF); B. M. Thomas, deputy forest supervisor; Ernest C. Pegg, forest assistant.

Lincoln.—J. A. KINNEY, forest supervisor, Capitan (WU, P-WF).

Manzano.—W. R. MATTOON, forest supervisor, Albuquerque (WU, P-WF); James F. Mullen, deputy forest supervisor.

Pecos.—THOS. R. STEWART, forest supervisor, Cowles, (WU, P-WF); Charles D. Faunce, forest assistant; Las Gallinas Nursery—H. D. Burrall, forest planting assistant.

Zuni.—W. R. MATTOON, forest supervisor, Albuquerque (WU, P-WF); James F. Mullen, deputy forest supervisor.

OKLAHOMA.

Wichita.—FRANK RUSH, game warden, in charge, Cache (WU-WF).

DISTRICT 4.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Forest Service Building, Ogden, Utah.

E. A. SHERMAN, district forester.

LAW.—Office of the Solicitor (Forest Service branch). R. F. FEAGANS, assistant to the solicitor, in charge.

ACCOUNTS.—Q. R. CRAFT, district fiscal agent.

OPERATION.—A. C. MCCAIN, assistant district forester.

MAINTENANCE, FELIX T. MOORE.

BOUNDARIES, R. V. R. REYNOLDS.

SILVICULTURE.—O. M. BUTLER, assistant district forester.

TIMBER SALES, assistant district forester in silviculture.

IDAHO.—Reconnaissance, Targhee National Forest—C. E. Dunston, in charge, St. Anthony.

Volume and yield study of Western yellow pine—E. R. Hodson, forest examiner, Boise.

Reconnaissance, South Fork Snake River, Teton National Forest—D. M. Lang, in charge.

Examination, drivability South Fork Snake River and tributaries, Teton and Wyoming National Forests—D. F. Seery, lumberman.

Reconnaissance, North Fork Payette River, Payette National Forest—Lee O. Miles, forest assistant, in charge, Emmett.

Reconnaissance, North Fork Boise River, Boise National Forest—Dana Parkinson, forest assistant, in charge, Boise.

UTAH.—Reconnaissance, Sevier National Forest—Lincoln Crowell, in charge, Panguitch.

Reconnaissance, La Sal National Forest—S. S. Stewart, in charge, Moab.

Study of growth and yield of aspen, Manti National Forest—F. T. McLean and A. Rosenmond, forest assistants, Ephraim.

PLANTING, J. M. FETHEROLF.

SILVICS, E. R. HODSON.

GRAZING.—HOMER E. FENN, assistant district forester.

LANDS.—T. C. HOYT, assistant district forester.

SUPPLY DEPOT.—A. M. SMITH, property clerk.

PROPERTY AUDIT.—J. G. FALCK, property auditor.

NATIONAL FORESTS.

ARIZONA.

Dixie.—See Utah.

Kaibab.—JAMES L. PELTON, forest supervisor, Kanab, Utah (WU-WF).

IDAHO.

Boise.—E. GRANDJEAN, forest supervisor, Boise (WU-Am); M. S. Benedict, deputy forest supervisor; Dana Parkinson, forest assistant.

Cache.—See Utah.

Caribou.—G. G. BENTZ, forest supervisor, Montpelier (WU-Am); Edwin F. McCarty, forest assistant.

Challis—DAVID LAING, forest supervisor, Challis (WU-Am).

Idaho.—J. E. ROTHERY, forest supervisor, McCall (WU-P); Hubert C. Williams, forest assistant.

Lemhi.—C. I. HUDDLE, forest supervisor, Mackay (WU-Am); S. B. Arthur, deputy forest supervisor; A. L. Brower, forest assistant.

Minidoka.—WILLIAM MCCOY, forest supervisor, Oakley (WU-Am).

Palisade.—C. L. SMITH, forest supervisor, St. Anthony (WU-Am); James B. Saxton, forest assistant.

Payette.—GUY B. MAINS, forest supervisor, Emmett (WU-Am); Frank J. Ryder, deputy forest supervisor; Lee O. Miles, forest assistant.

Pocatello.—J. F. BRUINS, forest supervisor, Pocatello (WU-Am); Pocatello Nursery—P. T. Wrensted, forest ranger.

Salmon.—JAMES M. RYAN, forest supervisor, Salmon (WU-Am); John A. Pearson, deputy forest supervisor; Irwin W. Cook, forest assistant.

Sawtooth.—C. N. WOODS, forest supervisor, Hailey (WU-Am); H. G. McPheters, deputy forest supervisor; Samuel B. Locke, forest assistant.

Targhee.—CHESTER B. MORSE, forest supervisor, St. Anthony (WU-Am); Charles A. Beam, deputy forest supervisor; T. W. Stokes, forest assistant.

Weiser.—J. B. LAFFERTY, forest supervisor, Weiser (WU-Am); W. M. Campbell, deputy forest supervisor; A. E. Oman, forest assistant.

NEVADA.

Humboldt.—C. SYDNEY TREMEWAN, forest supervisor, Elko (WU-WF); Geo. C. Thompson, deputy forest supervisor; Herman Work, forest assistant.

Moapa.—THOMAS J. COLLINS, acting forest supervisor, Las Vegas (WU-Am).

Nevada.—R. F. MATHIAS, forest supervisor, Ely (WU-WF); Rudolph Dieffenbach, deputy forest supervisor; Robert Rosenbluth, forest assistant.

Santa Rosa.—W. W. BLAKESLEE, forest supervisor, Paradise.

Toiyabe.—HERBERT GRAFF, forest supervisor, Austin (WU, P-WF).

UTAH.

Ashley.—W. M. ANDERSON, forest supervisor, Vernal (WU-WF); Lester E. Hitchcock, forest assistant.

Cache.—CLINTON G. SMITH, forest supervisor, Logan (WU-Am); J. C. Humphrey, deputy forest supervisor; E. C. Shepard, forest assistant.

Dixie.—JOHN RAPHAEL, forest supervisor, St. George (WU-WF).

Fillmore.—WM. HURST, forest supervisor, Beaver (WU-WF).

Fishlake.—CARL B. ARENTSON, forest supervisor, Salina (WU-WF); D. M. Lang, deputy forest supervisor; Wm. W. Twaddel, jr., forest assistant.

La Sal.—HENRY A. BERG, forest supervisor, Moab (WU-WF); C. E. Dunston, deputy forest supervisor.

Manti.—A. W. JENSEN, forest supervisor, Ephraim (WU-WF); Ernest Winkler, deputy forest supervisor; F. T. McLean, forest assistant.

Minidoka.—See Idaho.

Nebo.—DAN S. PACK, forest supervisor, Nephi (WU-WF).
Pocatello.—See Idaho.
Powell.—GEO. H. BARNEY, forest supervisor, Escalante (WU-WF).
Sevier.—O. C. SNOW, forest supervisor, Panguitch (WU-WF); Lincoln Crowell, deputy forest supervisor.
Uinta.—W. I. PACK, forest supervisor, Provo (WU-WF); J. Carl Allred, deputy forest supervisor; Nels B. Eckbo, forest examiner.
Wasatch.—E. H. CLARKE, forest supervisor, Salt Lake City (WU, P-Am, WF); Wasatch Nursery—N. J. Fetherolf, forest planting assistant.

WYOMING.

Ashley.—See Utah.
Caribou.—See Idaho.
Targhee.—See Idaho.
Teton.—R. E. MILLER, forest supervisor, Jackson (WU-Am).
Wyoming.—JAMES E. JEWELL, forest supervisor, Afton (WU-Am); L. J. Phelan, deputy forest supervisor; John E. Ingram, forest assistant.

DISTRICT 5.

California and southwestern Nevada. Office, First National Bank Building, San Francisco, Cal.

COERT DUBOIS, acting district forester; WALTER L. HUBER, district engineer; CLARENCE WILEY, inspector of records.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge.

ACCOUNTS.—F. C. THOMPSON, district fiscal agent.

OPERATION.—ROY HEADLEY, assistant district forester.

MAINTENANCE, F. H. SMITH.

SILVICULTURE.—T. D. WOODBURY, assistant district forester.

TIMBER SALES, assistant district forester in silviculture.

Reconnaissance on the Plumas National Forest.—Patrick Kennedy and C. H. Ensign, lumbermen, Quincy, Cal.

Check scaling on Sequoia National Forest.—J. C. Elliott, lumberman, Hot Springs, Tulare County, Cal.

SILVICS, J. A. MITCHELL, forest assistant.

Study of tree diseases in the California National Forests.—E. P. Meinecke, consulting pathologist, Sonora, Cal.

Study of insect-infested timber.—John M. Miller, forest ranger, Mineral, Cal.

Study of cut-over areas and silvical experiments in the Sierra National Forest.—J. A. Mitchell, forest assistant, Northfork, Cal.

GRAZING.—JOHN H. HATTON, assistant district forester.

LANDS.—L. A. BARRETT, assistant district forester.

PRODUCTS.—C. STOWELL SMITH, assistant district forester.

WOOD PRESERVATION.—Experiments to determine the best methods of seasoning *Eucalyptus globulus* poles, logs, and lumber, in cooperation with the estate of Adolph Sutro, the Pacific Land Investment Co., the Mount Tamalpais Cemetery Association, the Parkside Realty Co., and the Pioneer Wood Co.; and *Eucalyptus viminalis* logs, in cooperation with the University of California.—C. Stowell Smith, San Francisco, Cal.

Operation of a portable treating plant in Long and Honey Lake Valleys, Lassen County, Cal.—C. A. Kupfer.

Preservation of posts and poles, in cooperation with the ranchers in Scott Valley, Siskiyou County, Cal.

Experimental treatment of telephone poles for permanent improvement by the "Boucherie" process, Eldorado National Forest.

Preparation of inspection report on telephone poles treated and set, in cooperation with Southern California electric companies.—C. A. Kupfer, San Francisco, Cal.

Experiments to determine the relative resistance to marine wood borers of different species of untreated timber and of Douglas fir treated by various preservatives and coatings.—A. K. Armstrong, San Francisco, Cal.

WOOD UTILIZATION.—Study of the wood-using industries of the State, in cooperation with the State board of forestry.

Study of fence-post, mine-timber, and telephone-pole situation on and adjacent to the Inyo National Forest.—Jas. B. Berry, forest assistant, Bishop, Cal.

Turpentining experiments on the Sierra and Lassen National Forests to determine the yield and cost of operation per unit of area on western yellow, digger, lodgepole, and pricklecone pines.

Construction and operation of experimental kiln for the drying of eucalyptus lumber in cooperation with Mr. F. C. Havens, of Oakland.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P-WF); Ernest B. Long, deputy forest supervisor; J. M. Grant, forest expert, in charge of planting operations; Serope Y. Parnay, forest planting assistant, San Bernardino.

California.—D. P. GODWIN, forest supervisor, Willows (P-WF); A. W. Bartlett, deputy forest supervisor; S. W. Strothman, forest assistant.

Cleveland.—H. A. E. MARSHALL, forest supervisor, San Diego (WU, P-WF); Percy L. Day, deputy forest supervisor.

Eldorado.—EVAN W. KELLEY, forest supervisor, Placerville (WU-WF).

Inyo.—A. H. HOGUE, forest supervisor, Bishop (WU-WF); Jas. B. Berry, forest assistant.

Kern.—W. J. RUSHING, forest supervisor, Bakersfield (WU-WF); Jas. O. Morrow, deputy forest supervisor.

Klamath.—W. B. RIDER, forest supervisor, Yreka (WU-WF); J. R. Hall, deputy forest supervisor; Shirley W. Allen, forest assistant.

Lassen.—L. A. H. KLING, forest supervisor, Red Bluff (P-WF).

Modoc.—C. E. RACHFORD, forest supervisor, Alturas (P-WF); Vernon L. Bonner, deputy forest supervisor; Belknap C. Goldsmith, forest assistant.

Mono.—See Nevada.

Monterey.—RAYMOND TYLER, forest supervisor, Jamesburg, Cal. (WF, Salinas, care Tassajara, Hot Springs stage).

Plumas.—D. N. ROGERS, forest supervisor, Quincy (WU-WF); W. G. Durbin, deputy forest supervisor; R. S. Maddox and George R. Orr, forest assistants.

Santa Barbara.—WILLIS M. SLOSSON, forest supervisor, Santa Barbara (P-WF); H. G. Merrill, deputy forest supervisor; W. H. Moore. forest assistant.

Sequoia.—ALLAN B. PATTERSON, forest supervisor, Hot Springs, Tulare County (WU via Portersville-WF); W. C. Burton, deputy forest supervisor; S. W. Wynee, forest assistant.

Shasta.—R. F. HAMMATT, forest supervisor, Sisson (P-WF); M. R. Tillotson, deputy forest supervisor; Stewart B. Show, forest assistant; F. L. Rickey, planting assistant.

Sierra.—P. G. REDINGTON, forest supervisor, Northfork (WU via Fresno-WF, Friant); M. A. Benedict, deputy forest supervisor; Ernest G. Dudley, forest assistant.

Stanislaus.—R. W. AYRES, forest supervisor, Sonora (WU-WF); J. V. Wulff and Louis T. Larsen, forest assistants.

Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU-WF); M. B. Pratt. deputy forest supervisor; Wm. H. Gallaher, forest assistant.

Trinity.—W. A. HUESTIS, forest supervisor, Weaverville (WU-WF); J. D. Coffman, deputy forest supervisor; Ernest V. Jotter, forest assistant.

NEVADA.

Inyo.—See California.

Mono.—WM. M. MAULE, forest supervisor, Gardnerville (WU-WF); T. C. West, deputy forest supervisor; Rex King, forest assistant.

Tahoe.—See California.

DISTRICT 6.

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

GEO. H. CECIL, district forester; W. E. HERRING, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge; D. F. MCGOWAN, assistant to the solicitor.

ACCOUNTS.—A. H. COUSINS, district fiscal agent.

OPERATION.—C. H. FLORY, assistant district forester.

MAINTENANCE, SHIRLEY BUCK.

SILVICULTURE.—F. E. AMES, assistant district forester.

TIMBER SALES, assistant district forester in silviculture.

OREGON.—Examination of proposed sale areas on the Crater National Forest.

Examination of proposed sale areas on the Whitman National Forest.—W. T. Andrews, lumberman, Sumpter.

WASHINGTON.—Scaling on the Snoqualmie National Forest.—Edwin C. Erickson, scaler, Seattle.

PLANTING, J. F. KÜMMEL.

SILVICS, T. T. MUNGER.

GRAZING.—T. P. MACKENZIE, assistant district forester.

LANDS.—C. J. BUCK, assistant district forester; G. F. MEAD, law examiner.

PRODUCTS.—J. B. KNAPP, assistant district forester.

TIMBER TESTS.—Testing laboratory in cooperation with the University of Washington, Seattle, Wash.—O. P. M. GOSS, in charge; assistants, C. W. Zimmerman and H. P. Wyckoff.

Strength tests on air-dried western larch.—O. P. M. Goss, Seattle, Wash.

Strength tests on air-dried treated Douglas fir.—O. P. M. Goss, Seattle, Wash.

WOOD PRESERVATION.—Open-tank treating experiments on Douglas fir and western hemlock paving blocks.—O. P. M. Goss, Seattle, Wash.

WOOD UTILIZATION.—Study of commercial processes used in kiln-drying Douglas fir and other northwest woods.—H. B. Oakleaf and C. W. Dunning, Portland, Oreg.

Study of the rate of deterioration and usability of fire-killed timber in district 6.—J. F. Pernot, Portland, Oreg.

Study of the utilization of western red cedar for shingles, siding, and other products.—J. B. Knapp, Portland, Oreg.

Study of the modern sawmill in the Northwest.—H. B. Oakleaf and C. W. Dunning, Portland, Oreg.

NATIONAL FORESTS.

ALASKA.

Chugach.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU-AP. Am); Thos. M. Hunt, deputy forest supervisor; Bruce Hoffman, forest assistant.

Tongass.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU-AP, Am); Max Rothkugel, forest assistant.

CALIFORNIA.

Crater.—See Oregon.

Siskiyou.—See Oregon.

OREGON.

Cascade.—C. R. SEITZ, forest supervisor, Eugene (WU, P-WF); F. B. Kellogg, deputy forest supervisor; B. Frank Heintzleman, forest assistant.

Crater.—M. L. ERICKSON, forest supervisor, Medford (WU, P-WF); S. S. Swenning, deputy forest supervisor; H. D. Foster and William E. White, forest assistants.

Deschutes.—J. ROY HARVEY, forest supervisor, Bend (WU, PT & T-Ad via Opal City, GN via Opal City); B. F. Johnson, deputy forest supervisor; Reginald R. Chaffee, forest assistant.

Fremont.—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev.-WF); Norman G. Jacobson, forest assistant; Nelson J. Billings, grazing assistant.

Malheur.—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker City-Am, WF via Baker City); D. B. Reynolds, deputy forest supervisor; Herbert J. Miles, forest assistant.

Minam.—H. W. HARRIS, forest supervisor, Wallowa (WU-Am); S. A. Brown, deputy forest supervisor.

Ochoco.—HOMER ROSS, forest supervisor, Prineville (PT & T-Am); Ephraim Barnes, deputy forest supervisor.

Oregon.—T. H. SHERRARD, forest supervisor, Portland (WU, P-Am, WF, N); Ralph S. Shelley, deputy forest supervisor; W. B. Osborne and E. B. Starr, forest assistants.

Paulina.—W. W. CRYDER, forest supervisor, Crescent (WU, PT & T-Ad, GN via Opal City).

Santiam.—N. F. MACDUFF, forest supervisor, Albany (WU-WF).

Siskiyou.—R. L. FROMME, forest supervisor, Grants Pass (WU, P-WF); Allen Hodgson, deputy forest supervisor; H. Haefner, forest assistant.

Siuslaw.—A. E. COHOON, forest supervisor, Eugene (WU, P-WF); David E. Fitton, deputy forest supervisor.

Umatilla.—HUGH B. RANKIN, forest supervisor, Heppner (WU-Am); George A. Bright, forest assistant.

Umpqua.—S. C. BARTRUM, forest supervisor, Roseburg (WU, P-WF); E. H. McDaniels, deputy forest supervisor; Arthur Kerr, forest assistant.

Wallowa.—H. W. HARRIS; forest supervisor, Wallowa (WU-Am); Charles Black, grazing assistant; Robie M. Evans, forest assistant.

Wenaha.—See Washington.

Whitman.—HENRY IRELAND, forest supervisor, Sumpter (WU via Baker City-Am, WF via Baker City); M. L. Merritt deputy forest supervisor; Harold P. Gilkey, forest assistant.

WASHINGTON.

Chelan.—G. W. MILHAM, forest supervisor, Chelan (PT & T-Am, GN via Wenatchee); H. M. Coan, forest assistant.

Columbia.—H. O. STABLER, forest supervisor, Portland, Oreg. (WU, P-Am, WF, N); W. W. G. Hastings, deputy forest supervisor; A. R. Wilcox, Lage Wernstedt, and E. J. Hanzlik, forest assistants.

Colville.—C. C. REID, forest supervisor, Republic (WU, P-Am, GN); F. W. Cleator, deputy forest supervisor; Edward W. Headsten, forest assistant.

Okanogan.—H. M. HALE, forest supervisor, Okanogan; V. V. Harpham, deputy forest supervisor.

Olympic.—P. S. LOVEJOY, forest supervisor, Olympia (WU-Am, GN, N); A. A. Parker, deputy forest supervisor; William H. Gibbons, forest assistant.

Rainier.—G. F. ALLEN, forest supervisor, Tacoma (WU, P-Am, N); P. T. Harris, deputy forest supervisor; E. J. Fenby, forest assistant.

Snoqualmie.—B. P. KIRKLAND, forest supervisor, Seattle (WU, P-N, GN, WF) Lewis A. Treen, jr., deputy forest supervisor; Walter H. Leve, forest assistant.

Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P-Am, GN, N); F. H. Brundage, deputy forest supervisor; Herman M. Johnson, forest assistant.

Wenaha.—J. M. SCHMITZ, forest supervisor, Walla Walla (WU-Am, N).

Wenatchee.—A. H. SYLVESTER, forest supervisor, Leavenworth (WU-Am, GN); C. P. Willis forest assistant.

SERVICE CHANGES.

APPOINTED.

GRAZING.—Grazing examiners: Charles E. Fleming, Alfred E. Aldous, Robert R. Hill, and Lynn H. Douglas.

LANDS.—O. C. Merrill and F. H. Fowler, hydroelectrical engineers.

PRODUCTS.—Washington office: Orrington T. H. Swan, engineer in forest products. Laboratory: Engineers in forest products—Arthur L. Heim and Harry D. Tiemann; assistant engineers in forest products—Everett P. Peterson and Harold R. Winter; chemical engineers in forest products—John H. Thickens and Sidney D. Wells; assistant chemical engineer in forest products—Charles S. Gwinn; assistant chemist in forest products—Sydney E. Lunak; scientific assistant in wood utilization—Phillis C. Davis; laboratory assistants—Robert E. Prince and P. Finch; Henry Hanke, laboratory aid and engineer. Wood utilization: John T. Harris, statistician in forest products.

APPALACHIAN.—C. D. Cushing and Ralph C. Bryant, experts. Forest assistants: O. D. Ingall, Dean W. Martin, Richard H. Goode, John H. Fahrenbach, Rowland F. Hemingway, Seward H. Marsh, Sidney H. Thompson.

DISTRICT 1.—Operation: Forest assistants—Whiting Alden, Charles H. Edwards, John F. Forsythe, Howard A. Green, Alfred B. Hastings, Frederick R. Mason, Kenneth D. Swan, James C. Whithan, Waldo D. Barlow, Ernest F. Jones, and Arthur F. Oppel.

DISTRICT 2.—Operation: Forest assistants—Charles E. Beaumont, Pike National Forest; Philip L. Buttrick, Black Hills National Forest; Jay J. Fitz, Harney National Forest; Huber C. Hilton, Bighorn National Forest; Arthur F. C. Hoffman, White River National Forest; Walter A. Hopson, Leadville National Forest; Dwight S. Jeffers, Medicine Bow National Forest; Fred R. Johnson, Arapaho National Forest; George R. Monell, Holy Cross National Forest; George R. Morrison, Rio Grande Experiment Station; George Z. Mason, Battlement National Forest; Gordon Parker, Washakie National Forest; Myron W. Thompson, Shoshone National Forest; Devillo D. Wood, Routt National Forest; Leigh J. Young, Medicine Bow National Forest; H. C. Langston, surveyor, Battlement National Forest. Products: Norman deW. Betts, engineer in forest products.

DISTRICT 3.—Law: Julien O. Seth, assistant to the solicitor, district office. Operation: C. H. Starkweather, jr., expert, district office.

DISTRICT 4.—Operation: Forest assistants—Abraham Rosenmond, Manti National Forest; J. Warrington Stokes, Targhee National Forest; Lee O. Miles, Payette National Forest; Edwin C. Shepard, Cache National Forest; Edwin F. McCarthy, Caribou National Forest.

DISTRICT 5.—District forester: Walter L. Huber, hydroelectrical engineer.

DISTRICT 6.—District forester: Walter W. Clifford, hydraulic engineer; E. A. Braniff, forest supervisor, district office. Operation: H. J. Eberly and W. H. Ellenburg, forest assistants, Okanogan National Forest; Lage Wernstedt, forest assistant, Columbia National Forest; G. R. Hyslop and H. D. Scudder, collaborators, Deschutes National Forest. Lands: Andrew Kennedy, mineral examiner.

RESTORED TO THE ROLLS.

District 1.—Operation: Joseph W. Butler, forest assistant, Madison National Forest. Silviculture: Austin Cary, expert, district office.

District 3.—Operation: William J. Duppert, forest assistant, Sitgreaves National Forest.

District 4.—Operation: Lester E. Hitchcock, forest assistant, Ashley National Forest.

District 5.—Clarence Wiley, inspector of records.

District 6.—Silviculture: W. T. Andrews, lumberman.

CHANGE IN DESIGNATION.

Silviculture.—William T. Cox, from assistant forester to forest assistant.

Appalachian.—Edward N. Clark, from assistant forest ranger to forest examiner.

District 1.—Operation: J. P. Martin, assistant district forester to district engineer (district 4); J. F. Preston, forest supervisor to assistant district forester.

District 5.—Operation: M. R. Tillotson, chief of maintenance, district office, to deputy forest supervisor, Shasta National Forest.

District 6.—Operation: E. T. Clark, deputy forest supervisor to forest assistant, Snoqualmie National Forest.

TRANSFERRED.

Appalachian.—Robert G. Merritt, forest assistant, from district 6 to Appalachian.

District 1.—District forester: W. B. Greeley, from district forester to assistant forester in charge of silviculture, Washington office. Operation: J. P. Martin, from assistant district forester in charge of operation to district engineer, district 4; William G. Weigle, forest supervisor, Coeur d'Alene National Forest, to forest supervisor, Chugach and Tongass National Forest (district 6); Donald R. Brewster, forest assistant, from Sioux National Forest to St. Joe National Forest; A. A. Saunders, forest assistant, from Deerlodge National Forest to Lewis and Clark National Forest. Silviculture: Ovid M. Butler, from assistant district forester in silviculture to assistant district forester, district 4; J. F. Preston, from forest supervisor, Blackfeet National Forest, to assistant district forester in silviculture.

District 3.—Law: Ray F. Feagans, assistant to the solicitor, to district 4. Operation: Charles C. Hall, forest supervisor, from Alamo to Carson National Forest; Aldo Leopold, forest assistant, from Apache to Carson National Forest; Ira T. Yarnall, forest assistant, from Chiricahua to Carson National Forest; Arthur D. Read, deputy forest supervisor, from Jemez National Forest to reconnaissance on the Coconino National Forest; Charles D. Faunce, forest assistant, from Jemez to Pecos National Forest. Silviculture: Robert S. Wallace, forest assistant, from Arkansas to Gila National Forest; George C. Morbeck, forest assistant, from Ozark to Pecos National Forest.

District 4.—Law: Adolph W. Jensen, from assistant to the solicitor to forest supervisor, Manti National Forest. Operation: Forest supervisors—Daniel S. Pack, Palisade National Forest to Nebo National Forest; Charles L. Smith, Manti National Forest to Palisade National Forest; deputy forest supervisors—Clarence E. Dunston,

La Sal National Forest to Targhee National Forest; Duncan M. Lang, Fishlake National Forest to Teton National Forest. Silviculture: Ovid M. Butler, assistant district forester, from district 1 to district 4; forest assistants—Dana Parkinson, Nebo National Forest to Boise National Forest; Harry B. Maris, La Sal National Forest to Teton National Forest; William W. Twaddell, jr., Fishlake National Forest to Teton National Forest; Nils B. Eckbo, forest agent, Fishlake National Forest to Uinta National Forest. Grazing: George G. Bentz, from assistant district forester to forest supervisor, Caribou National Forest.

District 6.—Operation: P. S. Lovejoy, forest supervisor, Medicine Bow National Forest, district 2, to Olympic National Forest, district 6; P. T. Harris, deputy forest supervisor, from Shasta National Forest, district 5, to Rainier National Forest, district 6; R. M. Evans, forest assistant, from Oregon National Forest to Wallowa National Forest; Max Rothkugel, forest assistant, from Oregon National Forest to Whitman National Forest.

PROMOTED IN RANK.

Operation.—Franklin W. Reed, from associate district forester, district 4, to forest inspector, Washington.

Silviculture.—William B. Greeley, from district forester, district 1, to assistant forester; Earle H. Clapp, from associate district forester, district 3, to forest inspector.

District 1.—District forester: F. A. Silcox, from associate district forester to district forester. Operation: Charles A. Fisher, Clearwater National Forest, from deputy forest supervisor to forest supervisor; Charles F. Howell, from forest ranger to deputy forest supervisor, Pend Oreille National Forest; Edward Holcomb, St. Joe National Forest, from assistant forest ranger to deputy forest supervisor; Thomas C. Spaulding, St. Joe National Forest, from deputy forest supervisor to forest supervisor.

District 2.—Operation: Christopher M. Granger, deputy forest supervisor to forest supervisor, Medicine Bow National Forest; Raymond W. Allen, deputy forest supervisor to forest supervisor, Shoshone National Forest; George Philip Bard, forest assistant to deputy forest supervisor, White River National Forest; George A. Duthie, forest assistant to deputy forest supervisor, Pike National Forest; Alva A. Simpson, assistant forest ranger to deputy forest supervisor, Arapaho National Forest; Ray Peck, assistant forest ranger to deputy forest supervisor, Routt National Forest; William Wiehe, assistant forest ranger to deputy forest supervisor, Black Hills National Forest.

District 3.—Operation: Russel F. Balthis, from deputy forest supervisor to forest supervisor, Alamo National Forest; Robert L. Rogers, from deputy forest supervisor to forest supervisor, Arkansas National Forest; Aldo Leopold, from forest assistant to deputy forest supervisor, Carson National Forest; Joseph C. Kircher, from forest assistant to deputy forest supervisor, Coconino National Forest; Robert L. Deering, from forest assistant to deputy forest supervisor, Datil National Forest; Don P. Johnston, from deputy forest supervisor to forest supervisor, and Ausburn H. Douglas from forest ranger to deputy forest supervisor, Gila National Forest; Hugh G. Calkins, from deputy forest supervisor to forest supervisor, Sitgreaves National Forest; Harold Greene, from forest ranger to deputy forest supervisor, Tusayan National Forest.

District 4.—Operation: Winfred W. Blakeslee, from deputy forest supervisor, Humboldt National Forest, to forest supervisor, Santa Rosa National Forest; Joseph W. Humphrey, from forest ranger, Manti National Forest, to deputy forest supervisor, Cache National Forest; S. B. Arthur, from assistant forest ranger to deputy forest supervisor, Lemhi National Forest.

District 5.—Operation: John D. Coffman, from forest assistant to deputy forest supervisor, Trinity National Forest; David P. Godwin, deputy forest supervisor to forest supervisor, California National Forest; F. H. Smith, clerk, stenographer, and typewriter to chief of maintenance.

District 6.—Operation: Frank B. Kellogg, forest assistant, Columbia National Forest, to deputy forest supervisor, Cascade National Forest; Lewis A. Treen, jr., assistant forest ranger to deputy forest supervisor, Snoqualmie National Forest; Ephraim Barnes, forest ranger, Whitman National Forest, to deputy forest supervisor, Deschutes National Forest; J. Roy Harvey, deputy forest supervisor, Cascade National Forest, to forest supervisor, Deschutes National Forest; Homer Ross, deputy forest supervisor, Columbia National Forest, to forest supervisor, Ochoco National Forest; Nelson F. MacDuff, deputy forest supervisor, Siskiyou National Forest, to forest supervisor, Cascade National Forest; Hugh B. Rankin, assistant forest ranger, Whitman National Forest, to forest supervisor, Umatilla National Forest; Vernon V. Harpham, forest ranger, Umpqua National Forest, to deputy forest supervisor, Siskiyou National Forest; W. W. G. Hastings, forest assistant, Umpqua National Forest, to deputy forest supervisor, Columbia National Forest; Melvin L. Merritt, forest assistant, to deputy forest supervisor, Snoqualmie National Forest.

LEAVE WITHOUT PAY.

Grazing.—Will C. Barnes, inspector of grazing.

Products.—Laboratory: H. Stanley Bristol, expert.

District 2.—Operation: Harry W. Thurston, forest supervisor, Shoshone National Forest; Thomas C. Hatton, deputy forest supervisor, Sopris National Forest; Hartley B. Holyroyd, deputy forest supervisor, Colorado National Forest.

District 3.—Henry L. Johnson, forest assistant, Arkansas National Forest; Alexander J. MacKay, forest supervisor, Sitgreaves National Forest.

District 4.—Operation: Lawrence J. Phelan, deputy forest supervisor, Wyoming National Forest.

District 5.—Louis Margolin, forest examiner.

REINSTATED.

District 6.—Operation: John Riis, assistant forest ranger, Cascade National Forest. Transferred from district 4 to district 6.

FURLOUGHED.

District 4.—Operation: Robert Rosenbluth, forest assistant, Nevada National Forest.

RESIGNED.

District 1.—Operation: Herman E. Fegley, forest assistant, Sioux National Forest.

District 2.—Nile Hughel, constructing civil engineer, district office; George W. Hendry, forest assistant, Medicine Bow National Forest.

District 4.—Operation: Horace F. Studley, forest supervisor, Nebo National Forest; David Barnett, forest supervisor, Targhee National Forest; John Riis, deputy forest supervisor, Cache National Forest.

District 5.—Grazing: Madison B. Elliott, assistant district forester.

District 6.—Operation: Addison S. Ireland, forest supervisor, Deschutes National Forest; Benjamin F. Johnson, deputy forest supervisor, Deschutes National Forest; Robert E. Dickson, forest assistant, Siuslaw National Forest. Silviculture: D. L. McKay, scaler, district office.

APPOINTMENT TERMINATED.

Products.—Laboratory: Emile Leasman, ch mist in forest products.

District 2.—Products: Norman de W. Betts, engineer in timber tests, district office.

District 5.—Operation: Ernest Britten, forest supervisor, California National Forest.

DEMOTED.

District 6.—Operation: Herbert L. Hurd, deputy forest supervisor to forest ranger, Rainier National Forest; Thomas E. Chidsey, forest supervisor, Umatilla National Forest, to forest ranger, Crater National Forest; S. A. Blankenship, deputy forest supervisor, to assistant forest ranger, Wenatchee National Forest; Delmer S. Rice, deputy forest supervisor, to forest ranger, Wenatchee National Forest.

SUSPENDED.

District 4.—Operation: Hubert A. McNamara, forest ranger, Humboldt National Forest.

DISMISSED.

District 4.—Operation: Nathan E. Snell, forest supervisor, Caribou National Forest.

District 5.—Operation: J. W. Price, forest ranger, Kern National Forest.

District 6.—Operation: Floyd M. DuBois, assistant forest ranger, Crater National Forest; Charles V. Oden, forest ranger, Umpqua National Forest.

With deep regret announcement is made of the death of George W. Brotherton. forest ranger, Toiyabe National Forest, May 31, and of Robert H. Miller, deputy forest ranger, Cleveland National Forest, February 27.

SERVICE NOTES FOR JULY.

These notes contain instructions and necessary information for forest officers, and will therefore be carefully read and kept on file for reference.

OFFICE OF THE FORESTER.

Dates of National Forest Code's Becoming Effective—

The regulations and instructions contained in the Grazing and Special Uses sections of the National Forest Code became effective May 1, 1911. The other sections of the Manual will be printed and distributed during the present season, and the regulations and instructions contained will become effective as approved by the Secretary of Agriculture. These regulations and instructions will, as far as possible, be continued in effect without modification or amendment for at least one year. Every effort will be made to avoid frequent changes and the consequent issuance of letters, circulars, and Field Program notes, and as far as consistent with good administration corrections or changes will be made periodically and by means of a general revision of sections of the Manual. Conflicting clauses, errors, omissions, or ambiguous terms may be discovered; and changed conditions may make changes in procedure desirable or imperative, but unless immediate action is required to prevent damage to the National Forests or serious loss or embarrassment to the users of them recommendations for changes in regulations or instructions will be filed for consideration at the time of the next periodic general revision.

The regulations and instructions now in effect are more detailed and definite than any hitherto issued. It is believed that with the experience secured by one year's practical application of them it will be possible to issue a Manual well adapted to every need; one which will set forth clearly every principle and regulation governing the administration of the National Forests and every routine instruction required by the field officers. To this end the cooperation of every forest officer is solicited. Please submit, through the proper channels, any suggestions for changes in the regulations or instructions which your experience shows to be desirable, and call attention to any apparently conflicting instructions, or to any where the meaning is not absolutely clear. All suggestions received will be placed on file and considered at the proper time.

Report of Addresses—

All addresses delivered by members of the Service should be reported to the Forester on Form 129. Failure to do this has caused much inconvenience in the past.

LAW.

OFFICE OF THE SOLICITOR.

Damages and Fine Assessed Against Grazing Trespasser—

In the suit of the United States *v.* Esteban Anduiza, involving grazing trespass on the Weiser National Forest, the defendant has settled by payment of actual damages $40, punitive damages $100, costs, amounting to $12.80. In the suit in equity, involving the same defendant and the same trespass, permanent injunction was granted

some time ago, and this case has now been dismissed through the defendant's payment of the costs, amounting to $43.65. In a criminal action against the same defendant he was fined a sum of $50, which he paid, together with costs, amounting to $3.80.

United States v. Edward Newman, Civil—

Edward Newman grazed and herded sheep in trespass upon the Pocatello National Forest June 6 to 12, 1910. On May, 3, 1911, after due proceedings had, the defendant made a deposit with the United States attorney and offered settlement in the sum of $175 actual damages and $100 punitive damages. Such settlement was agreed to by the Forest Service, and the United States attorney for the district of Idaho has been instructed by the Attorney General to accept the amount.

United States v. Manuel Seifert, Criminal—

The defendant was an employee of Edward Newman and grazed and herded sheep in trespass upon the Pocatello National Forest, Idaho, June 6 to 12, 1910. The defendant was arrested on May 3, 1911, and pleaded guilty. The court imposed a fine of $25.

United States v. James Wallace and Edward Newman, Criminal—

Defendants grazed sheep in trespass upon the Pocatello National Forest, Idaho, June 6 to 12, 1910. They were arrested and on May 3, 1911, pleaded guilty. The court imposed a fine of $25 upon each.

United States v. Paul Wiedenbohm and Henry Gieschen, Criminal—

The defendants stole from the Big Spring Ranger Station, Targhee National Forest, Idaho, 60 loaded cartridges, Government property. Preliminary hearing was held at St. Anthony, Idaho, April 14, and on May 1 an indictment was returned by the grand jury. Defendants arraigned May 3; pleaded guilty May 4. Court imposed upon each a sentence of 90 days in the Bannock County jail, Idaho.

Law Cases in District 6—

On March 27, 1911, an indictment was returned by the Federal grand jury at Portland, Oreg., against W. S. Dennis for setting fire on the Fremont National Forest. On the following day Dennis appeared before the United States district court, pleaded guilty, and was fined $25.

April 5, 1911, the Federal grand jury at Spokane, Wash., returned an indictment against J. D. Lyda for setting fire on his squatter claim within the Okanogan National Forest. April 6 defendant appeared before the United States district court, pleaded guilty, and was fined $58.50 and costs.

The trial of Frank Kirri, who was indicted by the Federal grand jury of Portland, Oreg., March 23, 1911, was held on May 17, 18, and 19, and resulted in conviction on one of the two counts of the indictment. On May 22, Judge Bean sentenced him to 60 days in jail.

On April 18, 1911, the grand jury for Tillamook County, Oreg., returned an indictment against Orley Kellow for setting fire on his own land adjoining the Siuslaw National Forest. The indictment was accompanied by a recommendation of leniency. On April 19 the defendant appeared in court, pleaded guilty, was fined $25, and the fine remitted.

E. G. Gardner, who was indicted on March 22, 1910, for setting fire on the Siskiyou National Forest, appeared in court June 17 (1911) by attorney and entered a plea of guilty. Sentence was postponed.

On notice from the United States district court that suit had been instituted against him for grazing trespass on the Wallowa National Forest, Frank Pollita forwarded payment in full, amounting to $111.60 actual damage and $100 punitive damages.

During the month of April three valuable cameras were stolen from the storeroom in the basement of the Beck Building in which the district office, Portland, Oreg., is located. After a careful investigation of the matter, J. P. Tuley (alias J. P. Harrison) was arrested on the warrant issued at the instance of the chief of maintenance. On June 15 hearing was held before the United States commissioner and the defendant bound over for action by the grand jury. On June 27 defendant admitted the theft, and from information given by him all the cameras have been recovered.

April 15 report was received of the trespass on the Deschutes National Forest of several thousand head of cattle belonging to the Chewaucan Land & Cattle Co., Paisley, Oreg., which cattle were afflicted with scabies. April 18 a restraining order was issued by Judge Wolverton, of the United States district court at Portland, Oreg., to prevent further trespass. As the result of a conference held at the office of the United States attorney on May 30 and 31, between representatives of the company, the United States attorney, representatives of the Bureau of Animal Industry, and assistants to the solicitor, agreement was reached for settlement. As a result the restraining order was modified to permit drifting across a portion of said forest, the trespassers agreeing to pay damage resulting from trespass, amounting to $232.

On June 9 hearing for the purpose of securing a temporary injunction to prevent the use of water on the Alder Creek Ranger Station was held in the superior court for Okanogan County, resulting in granting of said injunction allowing the use of the water for but 8 out of each 21 days. Steps were immediately taken to file a bill in equity in the United States district court at Spokane, Wash., to prevent interference with the water rights of the United States. The Attorney General has directed immediate proceedings to secure this writ.

Grazing Trespass, Criminal—

In the case of the United States *v.* William McKean and the three herders in his employ—Dennis Cremin, Thomas Broderick, and John Matson—all of the defendants, except Thomas Broderick, pleaded guilty at the May term of court at Deadwood, S. Dak. William McKean was fined $400 and costs, the herders, Cremin and Matson, being fined $50 each and costs. The indictment against Thomas Broderick was nol-prossed.

Grazing Trespass, Civil—

In April the Department of Justice was requested to institute civil proceedings against Eugenio Gallegos, of Arboles, Colo., for the recovery of compensatory damages in the sum of $46, together with punitive damages on account of a trespass committed on the San Juan (E.) National Forest, by approximately 2,300 head of sheep. The case was settled without suit by the defendant paying the United States attorney the sum of $96.

On May 1 the circuit court of the United States sustained the injunction issued by Judge Lewis, district judge for the district of Colorado, restraining Fred Light from grazing stock on the Holy Cross National Forest without a permit.

The grazing trespass against Daniel Flynn for grazing 400 head of cattle in excess of his permit on the Sopris National Forest, which was referred to the Department of Justice in October, 1910, was settled without suit by the payment by Mr. Flynn of $87, the amount of the grazing fees for the number of cattle grazed in excess of his permit.

Timber Trespass, Civil—

The case of the United States *v.* John C. Teller and the Union Pacific Railroad Co., involving timber cut from the Medicine Bow National Forest, for which suit was instituted to recover the sum of $316,000, was settled on a compromise basis by the defendants paying the sum of $27,440.

The case of the United States *v.* Safe Investment Gold Mining Co., involving a timber trespass on the Black Hills (N.) National Forest, in which suit was instituted to recover $3,000, was compromised by the defendants paying to the United States the sum of $1,500.

On January 19, 1911, the Department of Justice was requested to institute suit against the Carbon Timber Co., of Hanna, Wyo., to recover the sum of $287,397.91 for a trespass committed on the Medicine Bow National Forest. The case is now pending in the office of the United States attorney at Cheyenne, Wyo., on an offer of compromise.

Timber Trespass, Replevin, Injunction—

Suit was instituted in the United States circuit court on June 27 to replevy approximately 300,000 feet of timber and approximately 3,000 ties which had been cut by R. T. Walker from certain lands within the Black Hills (S) National Forest. The land from which this timber was cut had been originally entered by John E. Barnes, and by two separate conveyances reconveyed to the United States under the act of June 4, 1897, allowing lieu selections. One of the above reconveyances pertained only to lot 1 of the entry, and for this lot lieu lands were patented to the entryman. The reconveyance covering the remainder of the entry has not yet been approved nor lieu lands patented therefor. After the above-mentioned reconveyances, and before the approval of the reconveyance of lot 1, patent was issued to John E. Barnes for the entire entry in May of 1903. In 1910 Barnes sold the land embraced in the patent to L. N. Kelly, who in turn sold to R. T. Walker. The timber replevied was cut from all the lands covered by the original entry. Suit was also instituted to enjoin Walker from any further cutting on this quarter section, or removing any of the timber cut, or from operating a sawmill thereon, or from entering upon the land for any purpose.

Injunction to Prevent Trespass on Unclassified Land within Primary Limits of Railroad Grant—

In the case of United States *v.* Milwaukee Lumber Co., pending in the United States Circuit Court for the Northern District of Idaho, a bill was filed asking that the defendant company be enjoined from further cutting or removing timber from unclassi-

fied odd-numbered sections within the primary limits of the Northern Pacific Railway grant, and within the boundaries of the Coeur d'Alene National Forest, until the classification of said sections. The case came on for hearing on May 24, 1911, and the manager of the company appeared and offered to give bond in lieu of a temporary injunction. The court accordingly granted a temporary injunction to take effect 10 days from date, unless, in the meantime, the company filed a satisfactory bond in the sum of $20,000 to pay the United States the full value of all timber cut from unclassified odd sections within the Coeur d'Alene National Forest, if the same should be found upon classification to be mineral in character.

Sale of Timber by State of Idaho from Unsurveyed School Sections within a National Forest—

United States *v.* Bonner's Ferry Lumber Co. was an action brought against the defendant company to recover $2,523.36, the value of timber cut by it in trespass from unsurveyed school sections within the Pend Oreille National Forest, under an attempted sale made by the State of Idaho to the company. Answer was filed by the attorney general of the State of Idaho, on behalf of the company, setting up the school-land grant to the State and the attempted sale to the company, and also denying certain items of damage. The United States demurred to this answer, and subsequently filed an amended demurrer. On December 5, 1910, the court sustained the Government's amended demurrer, (U. S. *v.* Bonner's Ferry Lumber Co., 184 Fed., 187), and the defendant, with the consent of the court, filed an amended answer, denying practically all the allegations of the complaint. On May 21, 1911, the assistant attorney general for the State of Idaho offered on behalf of the company to compromise the case by the payment of $2 per thousand for all timber cut in trespass on said sections by the company, and on May 24, 1911, he deposited a certified check for $2,053.90 with the clerk of the court, which was the total value of the timber on the above basis. The case was continued until the compromise could be submitted to the Attorney General of the United States for his approval. In event that the latter approves, judgment will be entered for the United States for the above amount, without costs.

Law Cases in District 3—

On April 5, 1911, Assistant Forest Rangers Joseph J. Jones and Clinton A. Hodges, of the Datil National Forest, held under bond on a charge of murder, the killing involved having occurred while the forest officers were attempting to arrest one John Latham for violating the stock laws of New Mexico, were released on a writ of habeas corpus, Assistant to the Solicitor R. F. Feagans having assisted the United States attorney in the argument.

The indictment against A. M. Neal, former forest supervisor of the Alamo National Forest, and six other forest officers, charging them with larceny in removing certain trespassing cattle from the Alamo National Forest, such removal having been made pursuant to the orders of the district forester, was disposed of on demurrer, such demurrer being sustained by the district court at Alamogordo, N. Mex., on March 6, 1911.

On April 13, 1911, the grazing trespass case against J. C. Cady, jr., involving lands within the Alamo National Forest, was settled by the payment of $126.

In the case of the United States *v.* E. E. Jernigan, involving a grazing trespass on the Alamo National Forest, settlement was made on April 3, 1911, by the payment of $67.50.

On April 13, 1911, a civil action against G. W. Jernigan to recover damages for the unlawful grazing of stock on the Alamo National Forest was settled by the payment of $990. A permanent injunction, together with judgment for costs of suit, was secured in this case in November, 1910.

On June 23, 1911, the grazing trespass case against R. H. Jernigan, involving lands within the Alamo National Forest, was settled by the payment of $189.

The case of C. R. and H. E. Robertson, involving a grazing trespass on lands within the Alamo National Forest, was settled on April 3, 1911, by payment of $126, after the case had been referred to the Department of Justice.

At the May term of the Federal court at Alamogordo, N. Mex., judgment was secured for $70.50 and costs, also a permanent injunction, in the case of the United States *v.* John Parker, involving a grazing trespass on the Alamo National Forest.

In the case of the United States *v.* A. C. Watson, involving a timber trespass on the Alamo National Forest, a judgment for $300 and costs was secured at the May term of the Federal court at Alamogordo, N. Mex.

On June 19, 1911, a judgment for $18 and costs, also a permanent injunction, was secured in the case of the United States *v.* John C. Worthington, involving a grazing trespass on the Alamo National Forest.

At the May term of the Federal court, at Batesville, Ark., a verdict of not guilty was directed by the court in the case of the United States *v.* H. J. Baysinger, involving a fire trespass on the Ozark National Forest, on the ground that the facts did not constitute a case within the statute, the fire having been set on private land and allowed to spread to adjoining public land. The court held that it is necessary in order to constitute an offense that the fire be set on public land.

On May 12, 1911, Henry Cross was tried at Little Rock, Ark., for a fire trespass on the Ozark National Forest and found guilty. A sentence of 60 days in the county jail was imposed.

At the May term of the Federal court, at Alamogordo, N. Mex., the case of the United States *v.* H. C. Herrington, involving a charge of timber trespass and larceny of Government property on the Alamo National Forest, was disposed of by a plea of guilty. Herrington was sentenced to serve 30 days in jail, but the sentence was suspended on condition that he leave the vicinity, such suspension being made in view of the fact that the defendant had already been in jail more than 60 days.

On April 27, 1911, one Osh Kee was tried before a justice of the peace for fire trespass on the Coconino National Forest, found guilty, and fined $30.

On May 10, 1911, at Pensacola, Fla., the case of the United States *v.* Will Reddick and Will Owens, involving a timber trespass on the Florida National Forest, was disposed of by pl as of guilty, Reddick being sentenced to 60 days and Owens to 30 days, both in the county jail.

In the case of the United States *v.* Policarpio Armijo, being a grazing trespass on the Jemez National Forest, settlement has been made by the payment of $28.75, the amount demanded by the Government.

In the case of the United States *v.* George H. Wilbur, involving a grazing trespass on the Crook National Forest, settlement has been made by the payment of $50.03, the amount in full of the Government's demand.

Grazing Trespass: Constitutionality of National Forests Organic and Administrative Acts—

On May 1, 1911, the Supreme Court of the United States handed down decisions in the cases of United States *v.* Fred Light, and United States *v.* Grimaud, Carajous and Inda, in all of which the court sustained the constitutionality of that part of the act of June 4, 1897 (30 Stat., 11), which authorizes the Secretary of Agriculture to make such rules and regulations and establish such service as will insure the objects of the National Forests, for the violation of which regulations the act prescribes a punishment.

The case of United States *v.* Fred Light was an action by the United States to restrain Light from pasturing stock upon the Holy Cross National Forest, Colo., without a permit from the Secretary of Agriculture. Light defended on the ground that the laws of Colorado make it indispensable to the maintenance of such an action that the owner of land must fence it against trespassing stock, and that the act of June 4, 1897, is unconstitutional because it delegates legislative authority to the Secretary of Agriculture to make and define a crime, and that the act of March 3, 1891, authorizing the President to set aside public lands as National Forests, is also unconstitutional and can not authorize the creation of forests without the consent of the State in which the lands are situated. The substance of the decision of the Supreme Court is as follows:

1. The United States can prohibit absolutely or fix the terms on which its property may be used and can withhold or reserve the land indefinitely, and this, without the consent of the State in which it is situated.
2. The long-continued sufferance by the United States of the pasturing of cattle on the public lands did not confer upon anyone a vested right to the use of those lands for that purpose; nor could it deprive the United States of the power of recalling the implied license arising therefrom so to do.
3. The Government has, with respect to its own lands, the rights of an ordinary proprietor to maintain its possession and prosecute trespassers, and it may deal with such lands precisely as an ordinary individual may deal with his farming property. (United States *v.* Canfield, 167 U. S., 524.)
4. Section 24 of the act of March 3, 1891, authorizing the President of the United States to set apart and reserve public lands bearing forests as national forests, is constitutional.
5. The act of June 4, 1897, conferring upon the Secretary of Agriculture authority to make rules and regulations for the administration of the national forests, is constitutional, and the regulations of the Secretary of Agriculture, made and promulgated thereunder, requiring all persons to secure permits before grazing any stock in a national forest, is valid and enforceable. (United States *v.* Grimaud, decided same day.)
6. Statutes providing that no recovery can be had for damages done by trespassing animals unless the land had been inclosed with a fence of the size and material required by State law do not give permission to the owner of cattle to use another's unfenced land as a pasture, and, therefore, if the statute of Colorado requiring owners to fence their land against straying stock is at all enforceable against the United States such a statute does not afford immunity to one who intentionally and willfully pastures and allows his stock to graze in the national forests.

The cases of United States *v.* Grimaud, Carajous, and Inda, consolidated for consideration by the Supreme Court, were criminal prosecutions for pasturing stock on the Sierra National Forest, Cal., in violation of the regulations of the Secretary of Agriculture, which required all persons to secure a permit before grazing stock on a forest reserve. The defendants demurred to the indictments on the ground that the act of June 4, 1897, is unconstitutional in that it attempts to delegate to the Secretary of Agriculture legislative power. The district court sustained the demurrers and the United States prosecuted a writ of error direct to the Supreme Court. The substance of the decision is as follows:

1. The act of June 4, 1897 (30 Stat., 11), authorizing the Secretary of Agriculture to make such rules and regulations and establish such service as will insure the objects of the national forests, namely, to regulate their occupancy and use and to preserve the forests thereon from destruction, and prescribing punishment for any violation of such rules and regulations, does not confer upon the Secretary of Agriculture legislative power, but merely authorizes him to exercise administrative functions in the management of the national forests, which, because of the various and varying details of such management, can not be provided in general regulations enacted by Congress, and the act is constitutional.

2. The authority to make administrative rules is not a delegation of legislative power, nor are such rules raised from an administrative to a legislative character because the violation thereof is punishable as a public offense.

3. Although there is no act of Congress which in express terms declares that it shall be unlawful to graze sheep on a national forest, and although the act of June 4, 1897, provides that nothing therein shall prohibit any person from entering such reservations for all proper and lawful purposes, such entry and use of the reserves is subject to the proviso, also contained in the act, that such persons comply with the rules and regulations covering such reservations; and as the act, not the Secretary of Agriculture, makes it an offense to violate such regulations, the grazing of sheep on the reservations without complying with the regulations of the Secretary of Agriculture, which require that a permit be obtained before grazing sheep on the reservations, is unlawful and an indictable offense.

4. The regulation promulgated by the Secretary of Agriculture on June 12, 1906, providing that "all persons must secure permits before grazing any stock in a forest reserve, except the few head in actual use by prospectors, campers, and travelers, and milch or work animals, not exceeding a total of six head, owned by bona fide settlers residing in or near a forest reserve, which are excepted and require no permit," is valid and enforceable, and a person who drives and grazes sheep upon a national forest in violation of such regulations is making unlawful use of the Government property and renders himself liable to the penalty imposed by Congress.

5. The Secretary of Agriculture has the power to impose a charge for the privilege of grazing on the national forests. In addition to the general power conferred by the act of June 4, 1897, the act of February 1, 1905, which declares "that all money received from the sale of any products or the use of any land or resources of said forest reserves shall be covered into the Treasury of the United States and for a period of five years from the passage of this act shall constitute a special fund available, until expended, as the Secretary of Agriculture may direct, for the protection, administration, improvement, and extension of Federal forest reserves," and also subsequent acts providing that money received from any source of forest-reserve revenue shall be covered into the Treasury, and a part thereof turned over to the States and Territories in which the national forests are located, to be expended for public schools and roads, clearly indicate that Congress intended that the Secretary of Agriculture might make charges out of which a revenue from forest reserves was expected to arise.

ACCOUNTS.

Meals and Lodging—

The Chief of the Division of Accounts holds that all expenses for meals and lodging must be included in reimbursement accounts supported by proper receipts as provided in the fiscal regulation, paragraph 14, but will waive this requirement in extreme cases of emergency affecting the public business or causing delay of important work. In such cases Form A vouchers may be used when accompanied by a statement of facts. If such statement does not show that such emergency existed, vouchers will be returned and payment required by the officer incurring the expense.

OPERATION.

Changes in Procedure—

Preparation of Written Proclamation and Executive Orders.—The written portion of the proclamation as well as Executive orders will be prepared in the Washington office. Secretary letters and press notice should be submitted by the district forester as heretofore. (See *OB* circular letter to district foresters, May 4.)

Inter-Forest Boundary Lines; Inner Margin of Black Line.—Greater care in the placing of inter-forest boundary lines on proclamation tracings is enjoined. Often such lines do not match up on the various tracings and considerable extra work on tracings and negatives becomes necessary in the Washington office as a consequence. It is believed this could well be avoided if proper attention were given to this point in the preparation of the tracings by the districts.

The inner margin of the black line should be considered the exterior limit of the forest area on inter-forest boundary lines as well as on exterior lines. These instructions supersede all previous conflicting instructions on this point. (See *OB* circular letter, May 23.)

Distinction Between "Boundary" and "Geography" Case Designation.—In order to avoid confusion it is desired that a closer distinction be drawn with reference to the case designation on correspondence pertaining to "boundary" and "geography" subjects. Letters pertaining to surveys, topographic corrections, compilations, projections, and kindred subjects should bear the key initial of "geography." (Circular letter to district foresters, May 26.)

Land Districts Should be Given with Recommendations for Withdrawal or Release.—In accordnace with a request from the Commissioner of the General Land Office to the Forester under date of June 23, diagrams accompanying recommendations for withdrawal of land for forest purposes or for release from such withdrawal should show the proper land district in which such lands are located. If no diagrams accompany the recommendations, the Secretary's letter should contain the information. (See *OB* circular letter to district foresters, June 24.)

Special Exception Clause Pertaining to Eliminations—

Under date of May 3 the Forester was informed by the Assistant Commissioner of the General Land Office that the Secretary of the Interior had directed that before submitting to the department recommendations involving eliminations from National Forests or releases from temporary withdrawals, the Commissioner of the General

Land Office secure a report from the Geological Survey as to the power possibilities of the lands recommended for elimination or release, and as to the value for coal of such of said lands as had not been reported upon.

In order to avoid the delay which such action would necessarily cause in the issuance of Proclamations it was subsequently agreed to insert the following exception clause in all future proclamations involving eliminations from National Forests:

> The lands herein eliminated from the ——— National Forest are hereby withdrawn for classification under the act of June 25, 1910 (36 Stat., 847), and will when compatible with public interests, be restored to settlement and entry under the laws applicable thereto on such date as shall be fixed by the Secretary of the Interior and after such notice as he may deem advisable.

GRAZING.

Discontinuance of "Agreement Supplemental to Grazing Application, Form 631"—

In connection with the forthcoming edition of the Trespass section of the National Forest Manual, the attention of all forest officers is invited to the fact that the use of the "Agreement supplemental to grazing application," Form 631, has been discontinued. All supplies of this form now on hand should be destroyed. The Solicitor of the Department of Agriculture has held that the use of this form is not essential to safeguard the Government against damage by trespass, and that the requirement of its execution by applicants is unnecessary.

Ranch Property Purchased with Stock—

Amendments have been made in the last paragraph on page 47 and the first paragraph on page 48 of the Grazing section of the National Forest Manual as follows:

When both the stock and ranches are purchased, *if the ranch property is commensurate and used in connection with the stock*, a renewal may be allowed the purchaser with any reduction that would have been made in the original permit.

If, after the transaction, *which includes a transfer of ranch property commensurate and used in connection with the stock*, the purchaser possesses all the qualifications of the original permittee, he should be allowed the same privileges if the number of stock does not exceed the maximum limit. If he does not, the privilege should be reduced accordingly.

LANDS.

Occupancy: Error in National Forest Manual—

The first word in line 4, page 14, of the Special Uses section of the Manual should be "without" instead of "with." The instructions should agree with Regulations L-35.

Occupancy: Inclosures—

The policy set forth in the last paragraph on page 16 of the Special Uses section of the Manual is applicable to pastures and other inclosures as well as to drift fences.

Water Power, Amendment of Regulation L-4—

The Secretary of Agriculture has authorized the amendment of Regulation L-4, so that it shall read as follows:

> No final water-power permit shall be issued if the works to be constructed thereunder will in any way physically interfere with works operated or constructed or to be constructed under a final water-power permit, nor will a final water-power permit be issued for the construction of works within an area covered by a prior preliminary permit until after the filing of final application or the loss of priority by the prior preliminary permittee. Successive preliminary permits may be issued covering the same water-power site, but in each successive preliminary permit it shall be specified that such permit is subordinate to any prior permit or permits still in effect and shall not deprive any prior preliminary permittee of his prior right to obtain a final permit.

The obvious purpose of this amendment is to allow the issuance of successive preliminary water-power permits covering the same site.

SERVICE PUBLICATIONS ISSUED.

Bulletin 84.—Preservative Treatment of Poles.

Bulletin 87.—Eucalypts in Florida.

Bulletin 88.—Properties and Uses of Douglas Fir.

Bulletin 89.—Olympic National Forest: Its Resources and Their Management.

Bulletin 92.—Light in Relation to Tree Growth.

Bulletin 93.—The Aspens.

Bulletin 95.—Uses of Commercial Woods of the United States. I. Cedars, Cypresses, and Sequoias.

Circular 175.—Growth and Management of Douglas Fir in the Pacific Northwest.

Circular 177.—Wooden and Fiber Boxes.

Circular 184.—Fustic Wood: Its Substitutes and Adulterants.

National Forest Manual.—Grazing.

National Forest Manual.—Special Uses.

Use Book—Water Power.

Unnumbered Circular.—Information Regarding Employment on the National Forests (Fifth Revision).

Unnumbered Circular.—Suggestions for the Collection of Range Plant Specimens. (Revised.)

CUMULATIVE INDEX TO SERVICE NOTES AND ORDERS.

(JULY, 1910–APRIL, 1911.)

[Numbers in parentheses after the month indicate page.]

Act of June 11, 1906, application, conflict of mining claim with; October (67).
Atlas folios, correcting; October (64).
requests for binding; October (64).
Boundaries and areas, changes in; July (33); October (64); January (95).
Business relations, and rules concerning; April (129).
Carbons sent for information, omission of initialing on; October (64).

Chaparral, California, regarding nomenclature of; October (61).
Claims agreement, revised cooperative; January (100).
cases, procedure in the conduct of; July (35); October (66).
conflict of mining, with a June 11, 1906, application; October (67).
indorsement upon final-proof notices; April (132).
instructions under cooperative agreement of November 25, 1910; January (97).
relinquishment of; October (67).
squatter, procedure in; April (132).
Correspondence on insects, diseases, and protection from animals; April (130).
Correspondence with other bureaus; January (102).
Damages assessed against grazing trespass; April (128).
Damages for destruction of young growth awarded; October (61).
measure of, in innocent timber trespass case; October (62).
Dendrological specimens, full data with; October (61).
Easements and special uses; April (135).
Employees killed or injured in forest fires; January (96).
Examination of forest homestead applications; July (38).
Express shipments, directions for; April (128).
Field Program to be published quarterly; July (32).
Final-proof notices and requests; January (99).
disposition of; October (68).
indorsement upon; April (132).
modification in indorsement of; January (99).
Fire trespass by C., B. & Q. R. R.; January (93).
case, complaint filed; October (62).
indicted for; January (93).
Fires, forest, employees killed or injured in; January (96).
Forage plants, identification of grasses and; July (35).
Form 2, revised, to supplant Form 143; July (33).
143, supplanted by Form 2, revised; July (33).
321, discontinued; July (34).
321a, originated; July (34).
322, revised; July (34).
323, revised; July (34).
861 and 861–G; revised; July (32).
979, requisitions for; July (34).
Fountain pens at Ogden; October (63).
General Order 140 of Secretary of Agriculture; July (32).
Grasses and forage plants, identification of; July (35).
Grazing permits and trespass period; April (131).
Grazing trespass, arrested for; October (63).
case settled; October (63).
damages assessed; April (128).
indictments returned; January (92).
period; April (131).
settlement; July (32).

Homestead applications, examination of forest; July (38).
Horse feed, maximum sum for; January (96).
Identification of grasses and forage plants; July (35).
Illegal occupants, judgment of ouster against; April (128).
Indian allotments; April (136).
Initialing, omission of, on carbons sent for information; October (64).
Injunction against Telluride Power Co., application for; January (93).
Insects, correspondence on; April (130).
Insect infestation, letters on ; July (34).
Lands, application to list; April (133).
effect of eliminations upon listed; October (68).
reconveyed to United States under lieu selection; January (102).
relative preference rights to listed; January (96).
valuable for coal; April (135).
within abandoned military reservations; April (134).
Letters, papers to accompany drafts of list; October (68).
Library, to increase the usefulness of; April (131).
Lieu selection, lands reconveyed to United States under; January (102).
Maps and surveys; April (129).
Mining claim, conflict of, with a June 11, 1906, application; October (67).
saloon location on; January (92).
National Forests, changes in boundaries and areas of; July (33); October (64).
Northern Pacific Railway Co., verdict against; April (128).
Nursery Reports; April (131).
Papers to accompany drafts of list letters; October (68).
Pay-roll forms, revision of; July (33).
Permits, water-power; January (96).
Personal conduct, rules concerning; April (129).
Political activity and political assessments or contributions; January (93).
rules concerning; April (129).
Preference rights to listed lands; January (96).
Preparation of papers, care in; July (34).
Proclamations and diagrams, distribution of; October (65).
supplies of; October (65).
Reconnaissance forms; July (34).
Refunds in supposed timber-trespass cases; October (62).
Requisitions for Form 979; July (34).
Reward, notice of; October (69).
Rights of way stipulations; April (135).
Roads, excepting strip of land for; April (133, 134).
Saloon location, mining claim does not permit; October (62).
on mining claim; January (92).
School sections, authority to sell timber from unsurveyed; January (92).
Settlement, application to list land; April (133).
closing cases in supervisors' offices; April (135).
effect of eliminations upon lands listed; October (68).

Settlement, exceptions for roads; April (133).
notice to applicant; April (134).
lands valuable for coal; April (135).
within abandoned military reservations; April (134).
Settlers on restored areas; July (38).
Signs, making and posting of; October (63).
Solicitor, duties of, in connection with Forest Service; July (32).
Special uses and easements; April (135).
Stations, statement as to power value; April (135).
withdrawal under the act of June 25, 1910; April (135).
Surveys and maps; April (129).
Timber, authority to sell from unsurveyed school sections; January (92).
sale; United States intervener; January (93).
trespass, criminal; January (92).
Transportation requests; July (33).
Trespass case, fire, complaint filed; October (62).
cases, measure of damage in innocent; October (62).
refunds in supposed; October (62).
fire, by the C. B. & Q. R. R.; January (93).
indicted for; January (93).
grazing, arrested for; October (63).
case of U. S. *v.* Joe Calscarta; October (63).
Anesteria Gabiala; October (63).
settled; October (63).
damages assessed; April (128).
settlement of, by Diteman and Rennie; July (32).
indictments returned; January (92).
timber, criminal; January (92).
Uniform, Forest Service; January (96).
Ware for camp use, tin or granite; October (63).
Water-power permits; January (96).

Walter Mulford

Issued October 16, 1911.

UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.

HENRY S. GRAVES, Forester.

October Field Program, 1911.

This program of field work and assignments in the Forest Service is issued quarterly on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

OFFICE OF THE FORESTER.

HENRY S. GRAVES, Forester.
ALBERT F. POTTER, Associate Forester.

HERBERT A. SMITH, editor.
FINDLEY BURNS, in charge of technical review.
Assistants in editor's office: BRISTOW ADAMS, DON CARLOS ELLIS, E. R. JACKSON, C. M. BALLARD.
GEORGE B. SUDWORTH, dendrologist.
CLAYTON D. MELL, assistant dendrologist.
Dendrological studies: W. D. BRUSH, H. P. BROWN, W. H. LAMB.
EUGENE S. BRUCE, expert lumberman.
D. D. BRONSON, general inspector.

ACCOUNTS.

Division of Accounts and Disbursements (Forest Service Branch).
M. E. FAGAN, chief of office of accounts; E. A. MELZAR, assistant chief.

OPERATION.

JAMES B. ADAMS, assistant forester, in charge; FRANKLIN W. REED, forest inspector; GEORGE G. ANDERSON, assistant in office methods.

GEOGRAPHY.—FRED G. PLUMMER, chief.

ATLAS.—G. B. BRUCE.

DRAFTING.—C. A. KOLB.

PHOTOGRAPHY.—A. G. VARELA.

MAINTENANCE.—GEORGE A. BENTLEY, chief.

SILVICULTURE.

W. B. GREELEY, assistant forester, in charge; EARLE H. CLAPP, forest inspector; FRANKLIN H. SMITH, statistician in forest products, special detail.

STATE COOPERATION.—J. G. PETERS, chief.

Collaborators, State cooperative fire protection under the Weeks law.—E. M. Griffith, State forester, Madison, Wis.; E. C. Hirst, State forester, Concord, N. H.; A. F. Hawes, State forester, Burlington, Vt.; William T. Cox, State forester, St. Paul, Minn.; Frank E. Mace, land agent and forest commissioner, Augusta, Me.; Alfred Gaskill, State forester, Trenton, N. J.; F. W. Besley, State forester, Baltimore, Md.; S. N. Spring, State forester, New Haven, Conn.; C. R. Pettis, superintendent of State forests, Albany, N. Y.; F. W. Rane, State forester, Boston, Mass.; F. A. Elliott, State forester, Salem, Oreg.

SILVICS.—RAPHAEL ZON, chief; S. T. DANA, assistant chief.

Studies, E. H. Frothingham, W. D. Sterrett, W. B. Barrows, C. R. Tillotson, G. N. Lamb, Barrington Moore.

COMPUTING.—W. B. BARROWS.

LIBRARY.—MISS H. E. STOCKBRIDGE.

FOREST MANAGEMENT IN THE EAST.—A. W. WILLIAMSON, acting in charge.

Examination of private forest lands.—L. S. Murphy, Washington, D. C.

GRAZING.

A. F. POTTER, associate forester, in charge; L. F. KNEIPP, assistant forester; WILL C. BARNES, inspector of grazing.

Range and forage plant investigations.—James T. Jardine, inspector of grazing, Flagstaff, Ariz.; Arthur W. Sampson and William A. Dayton, plant ecologists, Sisson, Cal.

Range reconnaissance.—Alfred E. Aldous, Lynn H. Douglas, Charles E. Fleming, Robert R. Hill, Flagstaff, Ariz.

LANDS.

JAMES B. ADAMS, assistant forester, in charge; O. C. MERRILL, chief engineer; F. H. FOWLER, engineer.

OCCUPANCY.—CHARLES H. SQUIRE, in charge.

CLAIMS.—J. I. PARKER, in charge.

PRODUCTS.

McGARVEY CLINE, in charge, Madison, Wis.

FOREST PRODUCTS LABORATORY (in cooperation with the University of Wisconsin, Madison, Wis.).—McGarvey Cline, director; Howard F. Weiss, assistant director.

Design of laboratory equipment.—Rolf Thelen.

Cooperation.—Carlisle F. Winslow.

Maintenance.—Wm. H. Kempfer, in charge.

Chemistry and Distillation.—L. F. Hawley, in charge; E. Bateman, A. W. Schorger, F. W. Kressman, R. C. Palmer.

Engineering.—Arthur L. Heim, in charge; C. T. Barnum, Frank J. Hallauer, James O. Bixby.

Pulp and Paper.—H. E. Surface, in charge; Robert E. Cooper, Sidney D. Wells, Charles S. Gwinn.

Timber Physics.—H. D. Tiemann, in charge; Frederick Dunlap, Eloise Gerry, Ollison Craig, Charles T. Leigh.

Timber Tests.—John A. Newlin, in charge; Thomas R. C. Wilson, Everett P. Peterson, Harold Winter.

Wood Preservation.—Francis M. Bond, in charge; E. W. Peters, Clyde H. Teesdale, Robert E. Prince.

Ground-Wood-Pulp Laboratory, Wausau, Wis.—John H. Thickens, in charge; Sidney E. Lunak, C. N. McNaughton.

Pathology (in cooperation with the Bureau of Plant Industry).—C. J. Humphrey, in charge; M. C. Jensen.

WOOD UTILIZATION.—H. S. Sackett, in charge; Fisher Building, Chicago, Ill.

Studies, Hu Maxwell, C. F. Hatch, John T. Harris, Clark W. Gould, Chicago, Ill.

WASHINGTON OFFICE.—O. T. Swan, in charge; A. H. Pierson, R. E. Simmons, Jesse C. Nellis.

ACQUISITION OF LAND UNDER THE WEEKS LAW.

WM. L. HALL, assistant forester, in charge, Washington, D. C.; Clyde Leavitt, forest inspector.

Examination of Lands.—White Mountains, K. W. Woodward, forest examiner, and party; Virginia and West Virginia, C. D. Cushing, expert, E. D. Clark, forest assistant, and party; North Carolina, D. W. Adams, lumberman, R. C. Hall, forest assistant, and party; South Carolina and Georgia, W. W. Ashe and Verne Rhoades, forest examiners, and party.

Boundary Surveys, Southern Appalachians.—E. D. Fletcher, forest examiner, and party.

DISTRICT 1.

Montana, northeastern Washington, northern Idaho, northwestern South Dakota, northern Michigan, northern Minnesota, and southwestern North Dakota. Office, Hammond Block, Missoula, Mont.

F. A. SILCOX, district forester; E. W. Kramer, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). W. C. HENDERSON, assistant to the solicitor, in charge; HAROLD H. CLARKE, assistant to the solicitor.

ACCOUNTS.—JOHN A. URBANOWICZ, district fiscal agent.

MAINTENANCE.—R. J. MOORE.

OPERATION.—J. F. PRESTON, assistant district forester.

SILVICULTURE.—R. Y. STUART, assistant district forester.

TIMBER SALES.—Assistant district forester in silviculture; Austin Cary, forest expert.

PLANTING.—H. H. FARQUHAR.

SILVICS.—F. I. ROCKWELL.

Priest River Experiment Station.—Donald R. Brewster, Priest River, Idaho.

Studies, C. N. Whitney, Anaconda, Mont.

Josef Brunner, field agent, Bureau of Entomology, Columbia Falls, Mont.

GRAZING.—C. H. ADAMS, assistant district forester.

LANDS.—R. H. RUTLEDGE, assistant district forester; JOHN D. JONES, assistant.

PRODUCTS.—P. R. HICKS, engineer in wood preservation.

NATIONAL FORESTS.

IDAHO.

Clearwater.—CHARLES A. FISHER, forest supervisor, Orofino (WU-Am); Alfred B. Hastings, forest assistant.

Coeur d'Alene.—ROSCOE HAINES, acting forest supervisor, Coeur d'Alene (WU-Am); W. W. Morris and Donald R. Bruce, forest assistants; C. H. Gregory, lumberman.

Kaniksu.—See Washington.

Nezperce.—GEORGE V. RING, forest supervisor, Grangeville (WU-Am); J. Arthur Brown, deputy forest supervisor; Howard A. Green, forest assistant.

Pend Oreille.—J. E. BARTON, forest supervisor, Sandpoint (WU-Am, N, W); Charles F. Howell, deputy forest supervisor; James R. Gillis, forest assistant.

Selway.—FRANK A. FENN, forest supervisor, Kooskia (WU-N); Edward C. Thenon, deputy forest supervisor; Wilford B. Willey, forest assistant.

St. Joe.—THOMAS C. SPAULDING, forest supervisor, St. Maries (Continental-WF); Edward A. Holcomb, deputy forest supervisor; E. H. Gregory, lumberman; E. B. Tanner, scaler.

MICHIGAN.

Marquette.
Michigan. —W. B. PIPER, acting forest supervisor, Au Sable (WU-Am).

MINNESOTA.

Minnesota.—G. E. MARSHALL, forest supervisor, Cass Lake (WU-Am, GN); J. St. J. Benedict, forest assistant.

Superior.—J. A. FITZWATER, forest supervisor, Ely (WU-GN).

MONTANA.

Absaroka.—JOSEPH D. WARNER, forest supervisor, Livingston (WU-Am, N); John M. Bedford, forest assistant.

Beartooth.—GLEN A. SMITH, forest supervisor, Billings (WU-Am, N); Arthur H. Abbott, deputy forest supervisor; James C. Whitham, forest assistant.

Beaverhead.—C. K. WYMAN, forest supervisor, Dillon (WU-Am); George E. Martin, deputy forest supervisor; Charles R. Clark, forest assistant.

Bitterroot.—W. W. WHITE, forest supervisor, Missoula (WU-Am, N); M. N. Stickney, deputy forest supervisor; Abbott B. Silva, forest assistant.

Blackfeet.—R. P. MCLAUGHLIN, forest supervisor, Kalispell (WU-Am, GN); J. A. Larsen, forest assistant.

Cabinet.—RALPH H. BUSHNELL, forest supervisor, Thompson Falls (WU-Am, N); Claude W. Griffin, deputy forest supervisor; Whiting Alden, forest assistant.

Custer.—KNOX MCANALLY, forest supervisor, Ashland (WU via Crow Agency-Am, N via Forsyth); Edgar F. White, forest assistant.

Deerlodge.—D. T. MASON, forest supervisor, Anaconda (P-Am, N); Lewis C. Stockdale, deputy forest supervisor; C. N. Whitney and John F. Forsythe, forest assistants.

Flathead.—PAGE S. BUNKER, forest supervisor, Kalispell (WU-Am, GN); John H. Clack, deputy forest supervisor; J. L. Cobbs, forest assistant.

Gallatin.—D. T. CONKLING, forest supervisor, Bozeman (WU-Am, N); Samuel R. Hays, deputy forest supervisor.

Helena.—J. B. SEELY, forest supervisor, Helena (WU-Am, N); Lewis T. Morgan, deputy forest supervisor; Warren F. Hale and Waldo D. Barlow, forest assistants.

Jefferson.—WALLACE S. PERRINE, forest supervisor, Great Falls (WU-Am, N); Wellman Holbrook, deputy forest supervisor; Kenneth D. Swan, forest assistant.

Kootenai.—DORR SKEELS, forest supervisor, Libby (WU-Am, GN); William A. Raymond, deputy forest supervisor; Webster H. Ransom and William C. Latane, forest assistants.

Lewis and Clark.—SCOTT LEAVITT, forest supervisor, Chouteau (WU via Collins-Am, GN via Collins); A. A. Saunders, forest assistant.

Lolo.—ELERS KOCH, forest supervisor, Missoula (WU, P-Am, N); E. C. Clifford and Reuben P. Prichard, forest assistants.

Madison.—CLIFTON W. HUDSON, forest supervisor, Sheridan (WU-Am, N); Joseph W. Butler and Ernest F. Jones, forest assistants.

Missoula.—D. G. KINNEY, forest supervisor, Missoula (WU, P-Am, N); Rutledge Parker, deputy forest supervisor; Frederick R. Mason, forest assistant.

Sioux.—See South Dakota.

NORTH DAKOTA.

Dakota.—C. A. BALLINGER, forest supervisor, Camp Crook, S. Dak. (WU via Bellefourche-Am via Bellefourche); Arthur F. Oppel, forest assistant.

SOUTH DAKOTA.

Sioux.—C. A. BALLINGER, forest supervisor, Camp Crook (WU via Bellefourche-Am via Bellefourche); Arthur F. Oppel, forest assistant.

WASHINGTON.

Kaniksu.—W. N. MILLAR, forest supervisor, Coolin, Idaho (WU via Priest River-Am, GN, Priest River); Meyer H. Wolff, deputy forest supervisor; Arnold O. Benson, forest assistant.

DISTRICT 2.

Colorado, Wyoming, South Dakota, Nebraska, and Western Kansas. Office, Majestic Building, Denver, Colo.

SMITH RILEY, district forester; T. W. NORCROSS, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). GEORGE E. TROWBRIDGE, assistant to the solicitor, in charge; J. F. LAWSON, assistant to the solicitor.

ACCOUNTS.—H. I. LOVING, district fiscal agent.

OPERATION.—FRED W. MORRELL, assistant district forester.

MAINTENANCE.—ALFRED C. ANDERSON.

SILVICULTURE.—S. L. MOORE, assistant district forester.

PLANTING.—JOHN BENTLEY, Jr.

SILVICS.—C. G. BATES.

Fremont Experiment Station.—W. D. Hays, Manitou, Colo.

Wagon Wheel Gap Experiment Station.—Peter Keplinger, Wagon Wheel Gap, Colo., and B. C. Kadel, of the Weather Bureau.

Studies, J. H. Potts, Denver, Colo.

Carl Hartley, consulting pathologist, Washington, D. C.

GRAZING.—J. W. NELSON, assistant district forester.

LANDS.—C. J. STAHL, assistant district forester.

PRODUCTS.—H. S. BETTS, assistant district forester, in charge; H. M. Mason, Denver, Colo.; N. deW. Betts, Cornelius Barry, Boulder, Colo.

NATIONAL FORESTS.

COLORADO.

Arapaho.—ARTHUR M. COOK, forest supervisor, Fraser (WU-Ad); Alva A. Simpson, deputy forest supervisor; Arthur T. Upson, forest assistant.

Battlement.—JOHN W. LOWELL, Jr., forest supervisor, Collbran (WU-WF, G).

Cochetopa.—EUGENE WILLIAMS, forest supervisor, Saguache (WU-G); Charles P. Bliss, forest assistant.

Colorado.—H. N. WHEELER, forest supervisor, Fort Collins (WU-WF); Harold C. Clark, forest assistant.

Durango.—ERNEST W. SHAW, forest supervisor, Durango (WU-G).

Gunnison.—WILLIAM R. KREUTZER, forest supervisor, Gunnison (WU-WF, G); E. C. Berky, deputy forest supervisor; W. H. Mast, forest assistant.

Hayden.—See Wyoming.

Holy Cross.—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU-WF, G); Albert H. Miller, deputy forest supervisor.

La Sal.—See Utah, district 4.

Leadville.—THEODORE SHOEMAKER, forest supervisor, Leadville (WU, P-WF, G); R. E. Clark, deputy forest supervisor; J. E. Martin, forest assistant.

Montezuma.—RESS PHILLIPS, forest supervisor, Mancos (WU-G); Frank B. Notestein, forest assistant.

Pike.—C. W. FITZGERALD, forest supervisor, Denver (WU, P-Ad, Am, G, US, WF); George A. Duthie, deputy forest supervisor; W. I. Hutchinson, forest assistant; Monument Nursery, Henry G. Reinsch, forest expert; W. Schrader, forest planting assistant, Monument.

Rio Grande.—W. J. MORRILL, forest supervisor, Monte Vista (WU-G); Walter F. Bowers, deputy forest supervisor; Jay Higgins, forest assistant.

Routt.—J. H. RATLIFF, forest supervisor, Steamboat Springs (WU-Ad); Ray Peck, deputy forest supervisor; P. J. Paxton, forest assistant.

San Isabel.—J. N. LANGWORTHY, forest supervisor, Westcliffe (WU-G); M. B. Willey, deputy forest supervisor; Albin G. Hamel, forest assistant.

San Juan.—A. L. SWEITZER, forest supervisor, Pagosa Springs (WU-G).

Sopris.—JOHN MCLAREN, forest supervisor, Aspen (WU-WF, G).

Uncompahgre.—HOWARD S. BUSHNELL, forest supervisor, Delta (WU-G); L. E. Cooper, deputy forest supervisor; J. H. Ramskill, forest assistant.

White River.—JAMES A. BLAIR, forest supervisor, Meeker (WU-WF, G); G. P. Bard, deputy forest supervisor; Crosby A. Hoar, forest assistant.

KANSAS.

Kansas.—B. R. H. D'ALLEMAND, forest supervisor, Garden City (WU, P-WF); Garden City Nursery.

NEBRASKA.

Nebraska.—R. G. PIERCE, acting forest supervisor, Halsey (WU-Ad); Halsey Nursery, Harry B. Hulse, forest guard, in charge.

SOUTH DAKOTA.

Black Hills.—PAUL D. KELLETER, forest supervisor, Deadwood (WU-Ad, Am); William Wiehe, deputy forest supervisor; Seward D. Smith, forest assistant.

Harney.—R. P. IMES, forest supervisor, Custer (WU-Ad); Stephen V. Klem, forest assistant.

WYOMING.

Bighorn.—E. N. KAVANAGH, forest supervisor, Sheridan (WU-Ad); Andrew G. Stockwell, deputy forest supervisor; Earl S. Pierce, forest assistant.

Bonneville.—H. EARL FRENCH, forest supervisor, Dubois (WU-Am).

Bridger.—H. C. HALL, forest supervisor, Pinedale (WU-Am).

Hayden.—JAMES BLACKHALL, forest supervisor, Encampment (WU, P-Am); Roy S. Wheeler, forest assistant.

Medicine Bow.—C. M. GRANGER, forest supervisor, Laramie (WU, P-Am); R. A. Stretch, deputy forest supervisor.

Shoshone.—R. W. ALLEN, forest supervisor, Cody (WU-Ad); Fred B. Agee, deputy forest supervisor; Myron W. Thompson, forest assistant.

Sundance.—LOUIS KNOWLES, forest supervisor, Sundance (WU-Ad, Am).

Washakie.—C. G. POOLE, forest supervisor, Lander (WU-Am); Gordon Parker, forest assistant.

DISTRICT 3.

Arizona, Arkansas, Florida, New Mexico, and Oklahoma. Office, Strickler-Luna Building, Albuquerque, N. Mex.

A. C. RINGLAND, district forester.

LAW.—Office of the Solicitor (Forest Service branch). BLAKE FRANKLIN, assistant to the solicitor, in charge; J. O. SETH, assistant to the solicitor.

ACCOUNTS.—J. J. DUFFY, district fiscal agent.

OPERATION.—A. O. WAHA, assistant district forester; A. S. Peck, assistant district forester, special detail.

MAINTENANCE.—FRANK E. SCHNEIDER.

SILVICULTURE.—T. S. WOOLSEY, Jr., assistant district forester; R. L. ROGERS forest examiner; NELSON L. LEGRAND, lumberman.

Fort Valley Experiment Station.—G. A. Pearson, Flagstaff, Arizona.

GRAZING.—JOHN KERR, assistant district forester.

LANDS.—FRANK C. W. POOLER, assistant district forester.

NATIONAL FORESTS.

ARIZONA.

Apache.—JOHN D. GUTHRIE, forest supervisor, Springerville (WU, P-WF); Frederick Winn, deputy forest supervisor; Clifford W. McKibbin, forest assistant.

Chiricahua.—A. H. ZACHAU, forest supervisor, Portal (WU, P-WF).

Coconino.—WILLARD M. DRAKE, forest supervisor, Flagstaff (WU, P-WF); J. C. Kircher, deputy forest supervisor; Quincy Randles and Max H. Foerster, forest assistants; Robert R. Hill, grazing examiner, reconnaissance.

Coronado.—ROBERT J. SELKIRK, forest supervisor, Tucson (WU, P-WF).

Crook.—T. T. SWIFT, forest supervisor, Safford (WU-WF).

Prescott.—C. H. HINDERER, forest supervisor, Prescott (WU-WF); J. C. McNelty, deputy forest supervisor.

Sitgreaves.—HUGH G. CALKINS, forest supervisor, Snowflake (WU, P-WF); Chas. H. Jennings, deputy forest supervisor; T. B. Longwell, reconnaissance.

Tonto.—R. G. WILLSON, forest supervisor, Roosevelt (WU-WF).

Tusayan.—STANTON G. SMITH, forest supervisor, Williams (WU, P-WF); Harold Greene, deputy forest supervisor; Gordon T. Backus, forest assistant.

Zuni.—See New Mexico.

ARKANSAS.

Arkansas.—S. A. CHAPPELL, forest supervisor, Hot Springs (WU, P-WF, P); C. J. Heller, forest assistant.

Ozark.—FRANCIS KIEFER, forest supervisor, Harrison (WU-WF); Ralph C. Huey, deputy forest supervisor; L. L. Janes, forest assistant.

FLORIDA.

Florida.—I. F. ELDREDGE, forest supervisor, Pensacola; W. F. Hill, deputy forest supervisor; P. D. Edmunds, forest agent.

NEW MEXICO.

Alamo.—R. F. BALTHIS, forest supervisor, Cloudcroft (WU, P-WF); Thomas E. McCullough, forest assistant.

Carson.—C. C. HALL, forest supervisor, Tres Piedras (WU-G); Aldo Leopold, deputy forest supervisor; Ira T. Yarnall, forest assistant; Raymond E. Marsh, reconnaissance.

Chiricahua.—See Arizona.

Datil.—W. H. GODDARD, forest supervisor, Magdalena (WU, P-WF); Robert L. Deering, deputy forest supervisor; H. Basil Wales, forest assistant.

Gila.—DON P. JOHNSTON, forest supervisor, Silver City (WU, P-WF); Ausburn H. Douglas, deputy forest supervisor; Herman Krauch, forest assistant; Chas. H. Kissam, forest agent; P. P. Pitchlynn, reconnaissance; Fort Bayard Nursery, H. C. Turner, forest planting assistant.

Jemez.—FRANK E. ANDREWS, forest supervisor, Santa Fe (WU, P-WF); B. M. Thomas, deputy forest supervisor; Ernest C. Pegg, forest assistant; George C. Morbeck, reconnaissance.

Lincoln.—J. A. KINNEY, forest supervisor, Capitan (WU, P-WF).

Manzano.—W. R. MATTOON, forest supervisor, Albuquerque (WU, P-WF); James F. Mullen, deputy forest supervisor.

Pecos.—THOS. R. STEWART, forest supervisor, Cowles (WU, P-WF); Charles D. Faunce, forest assistant; Las Gallinas Nursery, H. D. Burrall, forest planting assistant; Otto F. Swenson and Frank J. Mosher, forest assistants.

Zuni.—W. R. MATTOON, forest supervisor, Albuquerque (WU, P-WF); James F. Mullen, deputy forest supervisor.

OKLAHOMA.

Wichita.—FRANK RUSH, game warden, in charge, Cache (WU-WF).

DISTRICT 4.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Forest Service Building, Ogden, Utah.

E. A. SHERMAN, district forester; J. P. MARTIN, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). R. F. FEAGANS, assistant to the solicitor, in charge.

ACCOUNTS.—Q. R. CRAFT, district fiscal agent.

OPERATION.—A. C. MCCAIN, assistant district forester.

MAINTENANCE.—FELIX T. MOORE.

BOUNDARIES.—R. V. R. REYNOLDS.

SILVICULTURE.—O. M. BUTLER, assistant district forester; D. F. SEERY, lumberman.

PLANTING.—J. M. FEATHEROLF.

SILVICS.—E. R. HODSON.

Studies, F. T. McLean, A. Rosenmond, Ephraim, Utah.

GRAZING.—HOMER E. FENN, assistant district forester.
LANDS.—T. C. HOYT, assistant district forester.
SUPPLY DEPOT.—A. M. SMITH, property clerk.
PROPERTY AUDIT.—J. G. FALCK, property auditor.

NATIONAL FORESTS.

ARIZONA.

Dixie.—See Utah.
Kaibab.—JAMES L. PELTON, forest supervisor, Kanab, Utah (WU-WF).

IDAHO.

Boise.—E. GRANDJEAN, forest supervisor, Boise (WU-Am); M. S. Benedict, deputy forest supervisor; Dana Parkinson, forest assistant.
Cache.—See Utah.
Caribou.—G. G. BENTZ, forest supervisor, Montpelier (WU-Am); Edwin F. McCarty, forest assistant.
Challis.—DAVID LAING, forest supervisor, Challis (WU-Am).
Idaho.—J. E. ROTHERY, forest supervisor, McCall (WU-P); Hubert C. Williams, forest assistant.
Lemhi.—C. I. HUDDLE, forest supervisor, Mackay (WU-Am); S. B. Arthur, deputy forest supervisor; A. L. Brower, forest assistant.
Minidoka.—WILLIAM MCCOY, forest supervisor, Oakley (WU-Am).
Palisade.—FRANK J. RYDER, forest supervisor, St. Anthony (WU-Am); Lucas W. Hastings, deputy forest supervisor; James B. Saxton, forest assistant.
Payette.—GUY B. MAINS, forest supervisor, Emmett (WU-Am); Lawrence J. Phelan, deputy forest supervisor; Lee O. Miles, forest assistant.
Pocatello.—J. F. BRUINS, forest supervisor, Pocatello (WU-Am); Pocatello Nursery, P. T. Wrensted, forest ranger.
Salmon.—JAMES M. RYAN, forest supervisor, Salmon (WU-Am); John A. Pearson, deputy forest supervisor; Irwin W. Cook, forest assistant.
Sawtooth.—C. N. WOODS, forest supervisor, Hailey (WU-Am); H. G. McPheters, deputy forest supervisor; Samuel B. Locke, forest assistant.
Targhee.—CHESTER B. MORSE, forest supervisor, St. Anthony (WU-Am); Charles A. Beam, deputy forest supervisor; C. E. Dunston, deputy forest supervisor, reconnaissance; T. W. Stokes, forest assistant.
Weiser.—J. B. LAFFERTY, forest supervisor, Weiser (WU-Am); W. M. Campbell, deputy forest supervisor; A. E. Oman, forest assistant.

NEVADA.

Humboldt.—C. SYDNEY TREMEWAN, forest supervisor, Elko (WU-WF); Geo. C. Thompson, deputy forest supervisor; Herman Work, forest assistant.
Moapa.—THOMAS J. COLLINS, acting forest supervisor, Las Vegas (WU-Am).
Nevada.—R. F. MATHIAS, forest supervisor, Ely (WU-WF); Rudolph Dieffenbach, deputy forest supervisor.
Santa Rosa.—W. W. BLAKESLEE, forest supervisor, Paradise.
Toiyabe.—HERBERT GRAFF, forest supervisor, Austin (WU, P-WF).

UTAH.

Ashley.—W. M. ANDERSON, forest supervisor, Vernal (WU-WF); Lester E. Hitchcock, forest assistant.

Cache.—CLINTON G. SMITH, forest supervisor, Logan (WU-Am); J. C. Humphrey, deputy forest supervisor; E. C. Shepard, forest assistant.

Dixie.—JOHN RAPHAEL, forest supervisor, St. George (WU-WF).

Fillmore.—WM. HURST, forest supervisor, Beaver (WU-WF).

Fishlake.—CARL B. ARENTSON, forest supervisor, Salina (WU-WF).

La Sal.—HENRY A. BERG, forest supervisor, Moab (WU-WF); S. S. Stewart, reconnaissance.

Manti.—A. W. JENSEN, forest supervisor, Ephraim (WU-WF); Ernest Winkler, deputy forest supervisor; F. T. McLean and A. Rosenmond, forest assistants.

Minidoka.—See Idaho.

Nebo.—DAN S. PACK, forest supervisor, Nephi (WU-WF).

Pocatello.—See Idaho.

Powell.—GEO. H. BARNEY, forest supervisor, Escalante (WU-WF).

Sevier.—O. C. SNOW, forest supervisor, Panguitch (WU-WF); R. W. Taylor, forest assistant, reconnaissance; W. N. Sparhawk, forest assistant.

Uinta.—W. I. PACK, forest supervisor, Provo (WU-WF); J. Carl Allred, deputy forest supervisor; Nels B. Eckbo, forest examiner.

Wasatch.—E. H. CLARKE, forest supervisor, Salt Lake City (WU, P-Am, WF); Wasatch Nursery, N. J. Fetherolf, forest planting assistant.

WYOMING.

Ashley.—See Utah.

Caribou.—See Idaho.

Targhee.—See Idaho.

Teton.—R. E. MILLER, forest supervisor, Jackson (WU-Am); D. M. Lang, deputy forest supervisor, reconnaissance.

Wyoming.—JAMES E. JEWELL, forest supervisor, Afton (WU-Am); John E. Ingram, forest assistant.

DISTRICT 5.

California and southwestern Nevada. Office, First National Bank Building, San Francisco, Cal.

COERT DUBOIS, district forester; WALTER L. HUBER, district engineer; CLARENCE WILEY, inspector of records.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge.

ACCOUNTS.—F. C. THOMPSON, district fiscal agent.

OPERATION.—ROY HEADLEY, assistant district forester.

MAINTENANCE.—F. H. SMITH.

SILVICULTURE.—T. D. WOODBURY, assistant district forester; J. C. ELLIOTT, lumberman.

SILVICS.—J. A. MITCHELL.

Consulting pathologist—E. P. Meinecke, Mineral, Cal.

GRAZING.—JOHN H. HATTON, assistant district forester.

LANDS.—L. A. BARRETT, assistant district forester.

PRODUCTS.—C. STOWELL SMITH, assistant district forester, in charge; C. A. Kupfer, A. K. Armstrong, San Francisco, Cal.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P-WF); Ernest B. Long, deputy forest supervisor; Jesse W. Hough, forest assistant; Serope Y. Parnay, forest planting assistant, San Bernardino.

California.—D. P. GODWIN, forest supervisor, Willows (P-WF); A. W. Bartlett, deputy forest supervisor; S. W. Strothman, forest assistant.

Cleveland.—H. A. E. MARSHALL, forest supervisor, San Diego (WU, P-WF); Percy L. Day, deputy forest supervisor.

Eldorado.—EVAN W. KELLEY, forest supervisor, Placerville (WU-WF); George W. Lyons, forest assistant.

Inyo.—A. H. HOGUE, forest supervisor, Bishop (WU-WF).

Kern.—W. J. RUSHING, forest supervisor, Bakersfield (WU-WF); Jas. O. Morrow, deputy forest supervisor; Neal T. Childs, forest assistant.

Klamath.—W. B. RIDER, forest supervisor, Yreka (WU-WF); J. R. Hall, deputy forest supervisor; Shirley W. Allen and Douglas K. Noyes, forest assistants.

Lassen.—L. A. H. KLING, forest supervisor, Red Bluff (P-WF); R. H. Boerker, forest assistant.

Modoc.—C. E. RACHFORD, forest supervisor, Alturas (P-WF); Vernon L. Bonner, deputy forest supervisor; Belknap C. Goldsmith, forest assistant.

Mono.—See Nevada.

Monterey.—RAYMOND TYLER, forest supervisor, Salinas, (WU, Soledad, Cal.-WF, Salinas, care Tassajara, Hot Springs stage).

Plumas.—D. N. ROGERS, forest supervisor, Quincy (WU, Keddie, Cal.-WF); W. G. Durbin, deputy forest supervisor; R. S. Maddox and George R. Orr, forest assistants; Patrick Kennedy and C. H. Ensign, reconnaissance.

Santa Barbara.—WILLIS M. SLOSSON, forest supervisor, Santa Barbara (P-WF); H. G. Merrill, deputy forest supervisor; W. H. Moore, forest assistant.

Sequoia.—ALLAN B. PATTERSON, forest supervisor, Hot Springs, Tulare County (WU via Portersville-WF); W. C. Burton, deputy forest supervisor; S. W. Wynne, forest assistant.

Shasta.—R. F. HAMMATT, forest supervisor, Sisson (P-WF); M. R. Tillotson, deputy forest supervisor; Stewart B. Show and Edward I. Kotok, forest assistants; F. L. Rickey, planting assistant; J. E. Elliott, reconnaissance.

Sierra.—P. G. REDINGTON, forest supervisor, Northfork (WU via Fresno-WF, Friant); M. A. Benedict, deputy forest supervisor; Ernest G. Dudley, forest assistant.

Stanislaus.—R. W. AYRES, forest supervisor, Sonora (WU-WF); J. V. Wulff and Louis T. Larsen, forest assistants.

Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU-WF); M. B. Pratt, deputy forest supervisor; Wm. H. Gallaher and K. Mills, forest assistants.

Trinity.—W. A. HUESTIS, forest supervisor, Weaverville (WU-WF); J. D. Coffman, deputy forest supervisor; Ernest V. Jotter and Howard DeForest, forest assistants.

NEVADA.

Inyo.—See California.

Mono.—WM. M. MAULE, forest supervisor, Gardnerville (WU-WF); T. C. West, deputy forest supervisor; Rex King, forest assistant.

Tahoe.—See California.

DISTRICT 6.

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

GEO. H. CECIL, district forester; W. E. HERRING, district engineer; R. E. BENEDICT, forest inspector.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge; D. F. MCGOWAN, assistant to the solicitor.

ACCOUNTS.—A. H. COUSINS, district fiscal agent.

OPERATION.—C. H. FLORY, assistant district forester.

MAINTENANCE.—SHIRLEY BUCK.

SILVICULTURE.—F. E. AMES, assistant district forester; W. T. ANDREWS, lumberman.

PLANTING.—J. F. KÜMMEL.

SILVICS.—T. T. MUNGER.

Studies, E. J. Hanzlik, Portland; G. A. Bright, Heppner, Oreg.

GRAZING.—T. P. MACKENZIE, assistant district forester.

LANDS.—C. J. BUCK, assistant district forester; G. F. MEAD, law examiner.

Land Classification.—G. W. Peavy, F. W. Cleator, R. W. Flournoy.

PRODUCTS.—J. B. KNAPP, assistant district forester, in charge; H. B. Oakleaf, C. W. Dunning, J. F. Pernot, Portland, Oreg.; O. P. M. Goss, Seattle, Wash.

NATIONAL FORESTS.

ALASKA.

Chugach.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU-AP, Am); Thos. M. Hunt, deputy forest supervisor; Bruce Hoffman, forest assistant.

Tongass.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU-AP, Am); Max Rothkugel, forest assistant.

CALIFORNIA.

Crater.—See Oregon.

Siskiyou.—See Oregon.

OREGON.

Cascade.—C. R. SEITZ, forest supervisor, Eugene (WU, P-WF); F. B. Kellogg, deputy forest supervisor; B. Frank Heintzleman, forest assistant.

Crater.—M. L. ERICKSON, forest supervisor, Medford (WU, P-WF); S. S. Swenning, deputy forest supervisor; H. D. Foster and William E. White, forest assistants; E. A. Braniff, reconnaissance.

Deschutes.—J. Roy Harvey, forest supervisor, Bend (WU, PT & T-Ad via Opal City, GN via Opal City).

Fremont.—Gilbert D. Brown, forest supervisor, Lakeview (WU via Reno, Nev.-WF); Norman G. Jacobson, forest assistant; Nelson J. Billings, grazing assistant.

Malheur.—Cy. J. Bingham, forest supervisor, John Day (WU via Baker City-Am, WF via Baker City); D. B. Reynolds, deputy forest supervisor; Herbert J. Miles, forest assistant.

Minam.—H. W. Harris, forest supervisor, Wallowa (WU-Am); S. A. Brown, deputy forest supervisor.

Ochoco.—Homer Ross, forest supervisor, Prineville (PT & T-Am); Ephraim Barnes, deputy forest supervisor.

Oregon.—T. H. Sherrard, forest supervisor, Portland (WU, P-Am, WF, N); Ralph S. Shelley, deputy forest supervisor; W. B. Osborne, forest assistant.

Paulina.—W. W. Cryder, forest supervisor, Crescent (WU, PT & T-Ad, GN via Opal City); Carl Ewing, reconnaissance.

Santiam.—N. F. MacDuff, forest supervisor, Albany (WU-WF); E. B. Starr, forest assistant.

Siskiyou.—R. L. Fromme, forest supervisor, Grants Pass (WU, P-WF); Allen Hodgson, deputy forest supervisor; H. Haefner, forest assistant.

Siuslaw.—A. E. Cohoon, forest supervisor, Eugene (WU, P-WF); David E. Fitton, deputy forest supervisor.

Umatilla.—Hugh B. Rankin, forest supervisor, Heppner (WU-Am); George A. Bright, forest assistant.

Umpqua.—S. C. Bartrum, forest supervisor, Roseburg (WU, P-WF); E. H. McDaniels, deputy forest supervisor; Arthur Kerr, forest assistant.

Wallowa.—H. W. Harris, forest supervisor, Wallowa (WU-Am); Charles Black, grazing assistant; Robie M. Evans, forest assistant.

Wenaha.—See Washington.

Whitman.—Henry Ireland, forest supervisor, Sumpter (WU via Baker City-Am, WF via Baker City); M. L. Merritt, deputy forest supervisor; Harold P. Gilkey, for.st assistant; Edwin C. Erickson, scaler.

WASHINGTON.

Chelan.—G. W. Milham, forest supervisor, Chelan (PT & T-Am, GN via Wenatchee); H. M. Coan, forest assistant.

Columbia.—H. O. Stabler, forest supervisor, Portland, Oreg. (WU, P-Am, WF, N); W. W. G. Hastings, deputy forest supervisor; A. R. Wilcox and Lage Wernstedt, forest assistants.

Colville.—C. C. Reid, forest supervisor, Republic (WU, P-Am, GN); F. W. Cleator, deputy forest supervisor; Edward W. Headsten, forest assistant.

Okanogan.—H. M. Hale, forest supervisor, Okanogan; V. V. Harpham, deputy forest supervisor.

Olympic.—P. S. Lovejoy, forest supervisor, Olympia (WU-Am, GN, N); A. A. Parker, deputy forest supervisor; William H. Gibbons, forest assistant.

Rainier.—G. F. Allen, forest supervisor, Tacoma (WU, P-Am, N); P T. Harris, deputy forest supervisor; E. J. Fenby, forest assistant.

Snoqualmie.—B. P. KIRKLAND, forest supervisor, Seattle (WU, P-N, GN, WF); Lewis A. Treen, jr., deputy forest supervisor; Walter H. Leve and Lawrence B. Pagter, forest assistants.

Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P-Am, GN, N); F. H. Brundage, deputy forest supervisor; Herman M. Johnson, forest assistant.

Wenaha.—J. M. SCHMITZ, forest supervisor, Walla Walla (WU-Am, N).

Wenatchee.—A. H. SYLVESTER, forest supervisor, Leavenworth (WU-Am, GN); C. P. Willis, forest assistant.

SERVICE CHANGES.

APPOINTED.

SILVICULTURE.—State cooperation: Collaborators—E. C. Hirst, A. W. Hawes, William T. Cox, F. E. Elliott, F. E. Mace, C. R. Pettis, C. P. Wilber, S. N. Spring, E. M. Griffith, F. W. Rane.

PRODUCTS.—Laboratory: Assistant engineers in forest products—Allison Craig, Charles T. Leigh, Everett P. Peterson, Harold R. Winter; Jacob M. Johlin, jr., assistant chemist in forest products; Homer Cloukey, scientific assistant in forest products. Wood utilization: Clark W. Gould, agent. Washington office: Jesse C. Nellis, statistician in forest products.

APPALACHIAN.—Forest assistants: Robert W. Shields, Harold L. Russell, Carrington Macfarlane.

DISTRICT 3.—Operation: Quincy Randles, forest assistant, Coconino National Forest; H. Basil Wales, forest assistant, Datil National Forest; Ernest C. Pegg, forest assistant, Jemez National Forest; Frank J. Mosher, forest assistant, Pecos National Forest. Silviculture: Albert E. Moss and John W. Spencer, forest assistants, Carson National Forest; William C. Koepke, forest assistant, Jemez National Forest; Otto F. Swenson, forest assistant, Pecos National Forest.

DISTRICT 5.—Silviculture: Forest assistants—Douglas K. Noyes, Klamath National Forest; Edward I. Kotok, Shasta National Forest; Jesse W. Hough, Angeles National Forest; R. H. Boerker, Lassen National Forest; Neal T. Childs, Kern National Forest; George W. Lyons, Eldorado National Forest; K. Mills, Tahoe National Forest; Howard De Forest, Trinity National Forest.

DISTRICT 6.—Operation: B. Frank Heintzleman, forest assistant, Cascade National Forest; Lawrence B. Pagter, forest assistant, Snoqualmie National Forest.

RESTORED TO THE ROLLS.

DISTRICT 1.—Operation: David G. Kinney, forest supervisor, Missoula National Forest.

DISTRICT 2.—Operation: Stanley B. Hall, forest assistant, Gunnison National Forest.

DISTRICT 3.—Operation: Oliver F. Bishop, forest assistant, Carson National Forest.

DISTRICT 6.—Silviculture: Edward J. Hanslik, forest assistant, district office.

CHANGE IN DESIGNATION.

SILVICULTURE.—State cooperation: J. Harold Foster, from assistant chief to forest assistant.

DISTRICT 3.—Silviculture: Robert L. Rogers, from forest supervisor to forest examiner, district office.

DISTRICT 6.—Operation: Allen H. Hodgson, forest assistant to deputy forest supervisor, Siskiyou National Forest.

TRANSFERRED.

APPALACHIAN.—Forest assistants: Charles E. Beaumont, Walter A. Hopson, Jay J. Fity, from district 2; forest assistants, Loren L. Bishop, E. P. Bushnell, from district 5; forest assistant, Percy T. Smith, from district 6.

DISTRICT 1.—Operation: Wilford B. Willey, forest assistant, from Clearwater National Forest to Selway National Forest; Donald R. Brewster, forest assistant, from St. Joe National Forest to Priest River Experiment Station.

DISTRICT 2.—Operation: Seward D. Smith, forest assistant, from Black Hills National Forest to district office.

DISTRICT 3.—Operation: Raymond E. Marsh, forest assistant, from Alamo National Forest to Carson National Forest.

DISTRICT 4.—District forester: Joseph P. Martin, assistant district forester, from district 1 to district engineer, district 4. Operation: Lawrence J. Phelan, deputy forest supervisor, Wyoming National Forest to Payette National Forest; forest assistants—James B. Saxton, Palisade National Forest to Targhee National Forest; Irwin W. Cook, Salmon National Forest to Teton National Forest.

DISTRICT 6.—Operation: Allen H. Hodgson, forest assistant, district 5 to district 6, Siskiyou National Forest.

PROMOTED IN RANK.

DISTRICT 1.—Operation: Arthur H. Abbott, from forest ranger to deputy forest supervisor, Beartooth National Forest; Robert P. McLaughlin, from deputy forest supervisor to forest supervisor, Blackfeet National Forest; Lewis C. Stockdale, from assistant forest ranger to deputy forest supervisor, Deerlodge National Forest; Samuel R. Hays, from assistant forest ranger to deputy forest supervisor, Gallatin National Forest; Meyer H. Wolff, from forest assistant to deputy forest supervisor, Kaniksu National Forest; Joseph D. Warner, from deputy forest supervisor, Helena National Forest, to forest supervisor, Absaroka National Forest; Lewis T. Morgan, from forest ranger, Jefferson National Forest, to deputy forest supervisor, Helena National Forest.

DISTRICT 3.—Operation: Frank E. Schneider, from forest clerk to chief of maintenance, district office; Sidney A. Chappel, from deputy forest supervisor to forest supervisor, Arkansas National Forest.

DISTRICT 4.—Operation: Frank J. Ryder, from deputy forest supervisor, Payette National Forest, to forest supervisor, Palisade National Forest; Lucas W. Hastings, from forest ranger to deputy forest supervisor, Palisade National Forest.

DISTRICT 5.—Coert Du Bois, from associate district forester to district forester Operation: Francis P. Porcher, from assistant forest ranger to deputy forest supervisor, Lassen National Forest.

LEAVE WITHOUT PAY.

FORESTER.—Dendrology: Harry P. Brown, xylotomist.

PRODUCTS.—Laboratory: Simon Kirsch, expert; Louis Witt, assistant engineer in forest products.

DISTRICT 2.—Operation: John C. De Camp, forest assistant, Durango National Forest; Leigh J. Young, forest assistant, Medicine Bow National Forest.

DISTRICT 3.—Silviculture: Nelson L. Le Grand, lumberman, and John H. Allison, forest examiner, district office.

DISTRICT 4.—Operation: Charles L. Smith, forest supervisor, Palisade National Forest; Lincoln Crowell, deputy forest supervisor, Sevier National Forest; forest assistants, Robert Rosenbluth, Nevada National Forest, and William W. Twaddell, jr., Teton National Forest.

DISTRICT 5.—Silviculture: James B. Berry, forest assistant, Inyo National Forest.

DISTRICT 6.—District forester: Charles S. Judd, assistant district forester, district office.

FURLOUGHED.

DISTRICT 2.—Silviculture: John E. Elliott, lumberman.

DISTRICT 5.—Operation: Willis M. Slosson, forest supervisor, Santa Barbara National Forest.

RESIGNED.

APPALACHIAN.—A. K. Chittenden, forest inspector.

SILVICULTURE.—Forest management: John S. Ames, forest assistant.

OPERATION.—Geography: Dabney C. Harrison, topographer.

DISTRICT 1.—Operation: Frederick A. Gaylord, forest assistant, Pend Oreille National Forest; V. Gifford Lantry, forest supervisor Absaroka National Forest. Silviculture: John S. Baird, lumberman.

DISTRICT 2.—Operation: John Murdoch, jr., forest assistant, Wagon Wheel Gap Experiment Station.

DISTRICT 3.—Grazing: Joseph K. Campbell, assistant district forester.

DISTRICT 5.—F. E. Olmsted, district forester.

DISTRICT 6.—Operation: William A. Langille, forest supervisor, Chugach National Forest; Reginald R. Chaffee, forest assistant, Deschutes National Forest.

APPOINTMENT TERMINATED.

APPALACHIAN.—Ralph C. Bryant, expert.

DISTRICT 2.—Operation: Thomas C. Hatton, deputy forest supervisor, Sopris National Forest.

DISMISSED.

DISTRICT 1.—Operation: Willard N. Bradish, forest ranger, Minnesota National Forest.

With deep regret announcement is made of the following deaths: John P. Murray, assistant forest ranger, Hayden National Forest, August 3; Charles H. Deviney, assistant forest ranger, on the Teton National Forest, July 8; Henry Louis Boldenweck, deputy forest supervisor, Lassen National Forest, September 6; C. B. Hyde, a temporary fire fighter on the Cleveland National Forest, who was killed while fighting fire September 26; Herbert L. Hurd, deputy forest supervisor, Rainier National Forest, who was drowned in the Nisqually River in the latter part of June.

SERVICE NOTES FOR OCTOBER.

These notes contain instructions and necessary information for forest officers, and will therefore be carefully read and kept on file for reference.

LAW.

OFFICE OF THE SOLICITOR.

Law Cases in District 1—

Criminal prosecution was instituted before United States commissioners as follows: Earl Bush, E. Marott, L. E. Woodworth, and H. M. Latham, fire trespass upon the Deerlodge National Forest August 2; held to the grand jury.

UNITED STATES *v.* STACK-GIBBS LUMBER CO. AND SHOSHONE LUMBER CO.—The Stack-Gibbs Lumber Co., acting under a so-called contract of sale from the Shoshone Lumber Co., entered upon certain lands within the boundary of the Coeur d'Alene National Forest embraced in unapproved Northern Pacific Railroad selections (Mount Ranier scrip) and began to cut and remove the timber therefrom. The case was reported to the Department of Justice for appropriate action. The United States attorney for the district of Idaho instituted proceedings in the United States circuit court for the purpose of securing an injunction. Subsequently, with the approval of the Attorney General, he accepted a bond in the sum of $50,000 executed by both corporations and conditioned to pay the United States for all timber cut from lands included in any selections which might hereafter be rejected by the Interior Department. In consideration of the filing of this bond, the suit in equity was continued for one year. This action was taken by the Department of Justice because of the fact that the timber was entirely fire-killed and rapidly deteriorating in value. Unless the timber should be cut and removed prior to the approval of the scrip selections, a large proportion of it would have been an utter loss to the Government and all other parties interested.

Law Cases in District 3—

Cases reported to the Department of Justice were settled by payments as follows: Stephen F. Spurgeon, grazing trespass upon the Gila National Forest, $247.50 actual damages, $50 punitive damages, and $50 costs; E. L. Neatherlin, grazing trespass upon the Alamo National Forest, $133.20; Wayne Bros., grazing trespass upon the Alamo National Forest, $225.

Law Cases in District 4—

Suits for the collection of civil damages were decided in favor of the Forest Service as follows: John Henry, fire trespass upon the Palisade National Forest, $243.93 and costs; O. M. Geary, grazing trespass upon the Sawtooth National Forest, $147 actual damages, $100 punitive damages, and $13 costs; Wm. A. Fletcher, grazing trespass upon the Sawtooth National Forest, $25 actual damages, $50 punitive damages, and $38.20 costs; H. L. Mitchell, grazing trespass upon the Weiser National Forest, $50 actual damages, and $14 costs.

Criminal actions were decided in favor of the Forest Service as follows: Cecil D. Ramsey, grazing trespass upon the Sawtooth National Forest, $20 fine; H. L. Mitchell, grazing trespass upon the Weiser National Forest, $50 fine and $7.40 costs; Wm. A. Fletcher, grazing trespass upon the Sawtooth National Forest, $50 fine and $7.40 costs.

FINED FOR VIOLATING A STATE LAW.—In the case of Gus Lamson and Charles Dalton, charged with violation of the laws of the State of Utah in having willfully taken down a part of a fence around a ranger station pasture upon the Fillmore National Forest and left the same open, defendants pleaded guilty and were fined $17.50.

Law Cases in District 6—

Criminal prosecution before United States grand juries resulted as follows: George Filisiano and J. P. Stevens, fire trespass upon the Olympic National Forest, indictment returned September 20; Henry Allen and S. E. Webb, fire trespass upon the Washington National Forest, indictment returned September 20.

Criminal prosecution before United States commissioners resulted as follows: John Smith, fire trespass upon the Ochoco National Forest, held to the grand jury in the sum of $500.

SENTENCE SUSPENDED ON RECOMMENDATION.—In the case of United States *v.* J. P. Tuley, alias Harrison, reported in the July Field Program, the defendant on July 17, 1911, pleaded guilty to one count of the indictment. Sentence was suspended on recommendation of the United States attorney for the reason that Tuley gave information upon which all three of the cameras stolen by him were recovered, and on account of the fact that he has a wife and two small children who would be the greatest sufferers in case of prison sentence. Action on the other count of the indictment was suspended pending Tuley's good behavior.

CAMPERS FINED FOR UNEXTINGUISHED FIRE.—On August 22 Werner Steiger and Andrew Heiman, boys about 20 years of age, were arrested for building a camp fire and leaving it without it being totally extinguished. On August 23 they pleaded guilty to an information filed by the United States district attorney at Portland and were fined $10 each. No damage was done to the forest.

OPERATION.

Reimbursement for Maintenance of Horse or Motor—

On August 3 the regulation which was approved by the Secretary in February concerning the ownership, maintenance, and equipment of saddle horses and other animals used by forest officers regularly assigned to field duty was modified by the Secretary to cover, in addition, the maintenance of motor-driven vehicles. This makes it now possible for forest officers in the field who use automobiles and motor cycles in connection with their official duties to receive reimbursement for the cost of operation and maintenance to the same proportion as those officers who use horse transportation. The regulation as it now stands reads as follows:

REGULATION.—Forest officers or employees regularly assigned to field duty may be required to own and equip the saddle and other animals necessary to carry on their official duties. Feed for animals so used, owned by forest officers or employees, will be furnished in whole or in part, as may be deemed equitable by the Forester, either by purchase or by growing such feed on national-forest lands. When a

motor-driven vehicle, such as a motor cycle or an automobile, is used by a forest officer in lieu of saddle horses or other animals in the performance of his official duties, gasoline and oil for motor cycles or automobiles so used will be furnished in whole or in part, as may be deemed equitable by the Forester.

Secretary Letters Recommending Eliminations and Release—

Secretary letters recommending the release of lands from temporary withdrawal should, in all cases, contain a brief, specific statement of the reason why the land was not desired for National Forest purposes. In all Secretary letters referring to eliminations or releases, a definite statement should also be inserted as to whether examination by forest officers discloses the fact that the areas embrace valuable power sites. If such information can not be given, the letter should so state. (See OB letter Aug. 8, 1911.)

Proclamation Diagrams and Topographic Data—

After September 15, 1911, all proclamation diagrams will be made in the Washington office. When time permits, advance blue prints will be submitted to the district forester for comment and correction before being lithographed. It is not expected that the drafting work in the district offices will be reduced by this change in procedure. By being relieved of this work it is hoped the district geographers will be able to extend additional assistance to supervisors in the preparation of corrected atlas sheets and the collection of new data, which are to be submitted annually. It is desired that the district forester submit, with his recommendations for boundary changes, any new data not previously forwarded to Washington, in order that they may be incorporated in the new diagram. (See OB letter Aug. 16, 1911.)

New Photographic Notebook—

After October 15 a new photographic notebook will be issued with films, or upon requisition, and will be expendable property. Each book will contain the instructions for photographic work in the field, districts, and at Washington. There will be six Forms 166, each for the record of an exposure, and six duplicate detachable forms, on which carbon records of the exposures may be made and retained by the author.

Forest Service Paper Scales—

The property clerk will issue on requisition, as expendable property, one or more sheets of bristol board, each engraved with four scales made from copper plates. These are 1 inch, 2 inches, 4 inches, and 8 inches to the mile.

Forest Service Standard Level Rod—

The following has been adopted for the Forest Service:

A self-reading "Philadelphia" rod, two-piece, 7 feet, sliding out to 13 feet, hardwood, divided by red figures into feet, divided by black figures and lines into tenths, and by shorter black lines into half-tenths and hundredths, round target with vernier reading to thousandths, and with a screw clamp or lever clamp, as desired. This description applies to the rods known as Dietzgen No. 5807, Keuffel & Esser No. 6256, and Gurley No. 500.

Forest Service Standard Stadia Pattern—

The following has been adopted:

Stadia rods will not be furnished, but will be made in the field when required, as in the Geological Survey. The standard pattern will be the same as that of the

Geological Survey, consisting of red and black triangles upon a white background. Sheets will be printed and will be issued by the property clerk, as expendable property, containing the strips required for a rod 12 feet long, and with an additional 3 feet, which may be used either to make a longer rod or to repair any portion of the pattern which has become injured. Each sheet will contain printed directions for making the rod, briefly as follows:

A strip of light wood 12 feet long, 3½ inches wide, three-fourths of an inch thick, is given a coat of shellac or varnish on its face and the strips of pattern are cut out and laid upon it dry. This is to avoid any change of scale in the paper, due to moistening. The dry paper should be quickly pressed flat upon the moist surface, matched end to end, and when dry its upper surface may be given a coat of shellac or varnish to protect it from the weather.

This will avoid the shipments of expensive and nonexpendable stadia rods and the accountability for them at the close of a survey. They can be made as often as required and may be thrown away when no longer needed.

It is believed that these two rods will meet all of the demands in the Forest Service for level and stadia work. In an emergency either rod can be used for either purpose, the level rod being best adapted for precise work or short sights and the stadia for rough and quick work. The question of dividing the stadia rod into two or more pieces and the method of joining them may be left to the fancy or ingenuity of the surveyor. A strap hinge for folding the rod can be purchased at any hardware store, as can also the bolts or hasps, which others might prefer for a lap joint. A cleat about 2 feet long and the same size as the rod will usually be found necessary to make the joint rigid.

Loose Leaf Covers—

The property clerk will issue to supervisors, on requisition, loose covers 21 by 18 inches, binding on the 18-inch side, for holding township plats. Also loose leaf covers 18 by 21 inches, binding on the 21-inch side, for standard atlas sheets. It will be necessary to preserve township plats with the greatest care, as it will not be possible in the majority of cases to obtain duplicates.

Forest Atlas Legend Crayons—

The property clerk has installed a machine for printing the Forest Atlas legend upon each colored crayon, and it is expected that this improved method of marking will lead to greater accuracy in the use of colors on maps. There have always been some uncertainties, due to the fact that many men are not good judges of color, and also because the makers of colored crayons change the formulæ for mixing colors or use different grades of pigment. It has also been found in the case of some colors that they change materially with age. Under this new method of marking it will be possible for the property clerk to obtain in each case the best grade of a standard color, and, disregarding the manufacturer's number, print the atlas legend upon the pencil. Thus, the bright yellow crayon will be marked "Grassland, barren, etc.," and "Open for sheep and goats only."

Standard Scale Diagrams and Maps—

The proclamation diagrams were originally intended to be only a graphic representation of the land, by townships and subdivisions, to be included within the boundaries of a National Forest. It was found, however, that they serve, though

incompletely, a number of purposes, and that it was desirable to show upon them a certain amount of drainage and other data. Wherever atlas sheets had been corrected or good data were available, it has been possible to prepare diagrams which fill, to some degree, the demand for forest maps. The scale of 4 miles to 1 inch was adopted with a standard style of drafting and titles. In some areas it has been possible to make a general layout, covering a group of forests, upon a polyconic projection, thus taking a step toward map making according to the most approved methods.

The proclamation diagrams which have been prepared upon the 4-miles-to-the-inch scale are as follows:

Alamo.	Inyo.	Santa Rosa.
Arkansas.	Kern.	Sioux.
Bonneville.	Malheur.	Stanislaus.
Bridger.	Mono.	Toiyabe.
Cascade.	Minam.	Uinta.
Chelan.	Ochoco.	Umatilla.
Datil.	Okanogan.	Wallowa.
Deschutes.	Oregon.	Wenaha.
Fishlake.	Ozark.	Whitman.
Fremont.	Pend Oreille.	
Humboldt (pt. 1).	San Isabel.	

The proclamation diagrams or maps for other purposes which have been or are being prepared on the 4-miles-to-the-inch scale and on the projection are as follows:

Absaroka.	Durango.	Paulina.
Beartooth.	Flathead.	Payette.
Beaverhead.	Fremont.	Rio Grande.
Bitterroot.	Gallatin.	San Juan.
Blackfeet.	Helena.	Santiam.
Boise.	Idaho.	Sawtooth.
Bonneville.	Jefferson.	Selway.
Bridger.	Klamath.	Sevier.
Cabinet.	Kootenai.	Shasta.
Cache.	La Sal.	Siskiyou.
Caribou.	Lewis and Clark.	St. Joe.
Cascade.	Lolo.	Teton.
Challis.	Madison.	Trinity.
Clearwater.	Missoula.	Umpqua.
Couer d'Alene.	Modoc.	Washakie.
Crater.	Montezuma.	Weiser.
Deerlodge.	Nezperce.	Wyoming.
Deschutes.	Oregon.	

When errors or omissions are noted upon proclamation diagrams or upon other maps, they should be corrected in the same manner as atlas sheets—that is, with red ink and marginal notes—and should be dated and signed by the person making the corrections. Letter writing regarding corrections should be avoided, as there is too

much opportunity for misunderstanding, and frequently the letters are not convincing. If a forest officer knows that a map is wrong, he should be able to indicate the error and his proposed correction upon the map.

LANDS.

Claims, Settlement, and Administrative Sites—

The Secretary of Agriculture has approved regulations and instructions thereunder relating to claims, settlement, and administrative sites. These are being printed and will be ready for distribution at an early date.

Trespass Regulations Approved—

On August 5 the Secretary of Agriculture approved regulations and instructions thereunder relating to trespass upon National Forests. They have been printed and are ready for distribution.

SERVICE PUBLICATIONS ISSUED.

Bulletin 75. California Tanbark Oak.
Bulletin 85. Chaparral.
Bulletin 86. Windbreaks: Their Influence and Value.
Bulletin 90. Relation of Light Chipping to the Commercial Yield of Naval Stores.
Bulletin 91. Grazing and Floods: A Study of Conditions in the Manti National Forest.
Bulletin 94. Scrub Pine.
Bulletin 97. Coyote-Proof Inclosures in Connection with Range Lambing Grounds.
Circular 185. "Colombian Mahogany": Its Characteristics and Its Use as a Substitute for True Mahogany.
Circular 186. Consumption of Preservatives and Quantity of Wood Treated in the United States in 1910.
National Forest Manual—Trespass.
Unnumbered Circular—National Forest Fire-Protection Plans.

CUMULATIVE INDEX TO SERVICE NOTES AND ORDERS.

(JULY, 1910–JULY, 1911.)

[Numbers in parentheses after the month indicate page.]

Act of June 11, 1906, application, conflict of mining claim with; October (67).
Addresses, report of; July, 1911 (25).
Atlas folios, correcting; October (64).
requests for binding; October (64).
Boundaries and areas, changes in; July, 1910 (33); October (64); January (95).
Business relations, and rules concerning; April (129).
Carbons sent for information, omission of initialing on; October (64).
Chaparral, California, regarding nomenclature of; October (61).
Claims agreement, revised cooperative; January (100).
cases, procedure in the conduct of; July, 1910 (35); October (66).
conflict of mining, with a June 11, 1906, application; October (67).
indorsement upon final-proof notices; April (132).
instructions under cooperative agreement of November 25, 1910; January (97).
relinquishment of; October (67).
squatter, procedure in; April (132).
Code, dates becoming effective; July, 1911 (25).
Constitutionality of national forest organic and administrative acts; July, 1911 (31, 32).
Conviction and sentence of Frank Kirri; July, 1911 (26).
Correspondence on insects, diseases, and protection from animals; April (130).
Correspondence with other bureaus; January (102).
Damages assessed against grazing trespass; April (128).
for destruction of young growth awarded; October (61).
measure of, in innocent timber trespass case; October (62).
Dendrological specimens, full data with; October (61).
Easements and special uses; April (135).
Employees killed or injured in forest fires; January (96).
Examination of forest homestead applications; July, 1910 (38).
Express shipments, directions for; April (128).
Field Program to be published quarterly; July, 1910 (32).
Final-proof notices and requests; January (99).
disposition of; October (68).
indorsement upon; April (132).
modification in indorsement of; January (99).
Fire trespass. (*See* Trespass, fire.)
Fires, forest, employees killed or injured in; January (96).

Forage plants, identification of grasses and; July, 1910 (35).
Form 2, revised, to supplant Form 143; July, 1910 (33).
143, supplanted by form 2, revised; July, 1910 (33).
321, discontinued; July, 1910 (34).
321a, originated; July, 1910 (34).
322, revised; July, 1910 (34).
323, revised; July, 1910 (34).
631, discontinuance of; July, 1911 (34).
861 and 861-G, revised; July 1910 (32).
979, requisitions for; July, 1910 (34).
Fountain pens at Ogden; October (63).
General Order 140 of Secretary of Agriculture; July, 1910 (32).
Grasses and forage plants, identification of; July, 1910 (35).
Grazing permits and trespass period; April (131).
Grazing trespass. (*See* Trespass, grazing.)
Grimaud et al., case of; July, 1911 (31, 32).
Habeas corpus, Joseph J. Jones and Clinton A. Hodges released on writ of; July, 1911 (29).
Homestead applications, examination of forest; July, 1910 (38).
Horse feed, maximum sum for; January (96).
Identification of grasses and forage plants; July, 1910 (35).
Illegal occupants, judgment of ouster against; April (128).
Inclosures: Occupancy; July, 1911 (34).
Indian allotments; April (136).
Initialing, omission of, on carbons sent for information; October (64).
Injunction against Telluride Power Co., application for; January (93).
Insect infestation, letters on; July, 1910 (34).
Insects, correspondence on; April (130).
Lands, application to list; April (133).
effect of eliminations upon listed; October (68).
reconveyed to United States under lieu selection; January (102).
relative preference rights to listed; January (96).
valuable for coal; April (135).
within abandoned military reservations; April (134).
Larceny, case of H. C. Herrington; July, 1911 (30).
A. M. Neal et al.; July, 1911 (29).
J. P. Tuley (Harrison); July, 1911 (27).
Paul Wiedenbohm and Henry Gieschen; July, 1911 (26).
Letters, papers to accompany drafts of list; October (68).
Library, to increase the usefulness of; April (131).
Lieu selection, lands reconveyed to United States under; January (102).
Light, Fred, case of; July, 1911 (31, 32).
Manual, error in; July, 1911 (34).
Maps and surveys; April (129).
Meals and lodging; July, 1911 (33).

Mining claim, conflict of, with a June 11, 1906, application; October (67).
saloon location on; January (92).
National Forest Code, dates becoming effective; July, 1911 (25).
National Forests, changes in boundaries and areas of; July, 1910 (33); October (64).
Northern Pacific Ry. Co., verdict against; April (128).
Nursery reports; April (131).
Papers to accompany drafts of list letters; October (68).
Pay-roll forms, revision of; July, 1910 (33).
Permits, water-power; January (96).
Personal conduct, rules concerning; April (129).
Political activity and political assessments or contributions; January (93).
rules concerning; April (129).
Preference rights to listed lands; January (96).
Preparation of papers, care in; July, 1910 (34).
Proclamations and diagrams, distribution of; October (65).
supplies of; October (65).
Procedure, changes in; July, 1911 (33, 34).
Ranch property purchased with stock; July, 1911 (34).
Reconnaissance forms; July, 1910 (34).
Refunds in supposed timber-trespass cases; October (62).
Requisitions for Form 979; July, 1910 (34).
Reward, notice of; October (69).
Rights of way stipulations; April (135).
Roads, excepting strip of land for; April (133, 134).
Saloon location, mining claim does not permit; October (62).
on mining claim; January (92).
School sections, authority to sell timber from unsurveyed; January (92).
Settlement, application to list land; April (133).
closing cases in supervisors' offices; April (135).
effect of elimination upon lands listed; October (68).
exceptions for roads; April (133).
notice to applicant; April (134).
lands valuable for coal; April (135).
within abandoned military reservations; April (134).
Settlers on restored areas; July (38).
Signs, making and posting of; October (63).
Solicitor, duties of, in connection with Forest Service; July (32).
Special uses and easements; April (135).
Stations, statement as to power value; April (135).
withdrawal under the act of June 25, 1910; April (135).
Surveys and maps; April (129).
Timber, authority to sell from unsurveyed school sections; January (92).
sale; United States intervener; January (93).
trespass. (*See* Trespass, timber.)
Transportation requests; July (33).

Trespass cases, fire, district 2: October (62); January (93).
by the C., B. & Q. R. R.; January (93).
district 3: July, 1911 (30).
district 6: January (93); July, 1911 (26, 27).
grazing, district 2: October (63); January (92); July, 1911 (27, 28).
district 3: July, 1911 (29, 30, 31).
district 4: October (63); July, 1911 (25, 26).
district 6: July, 1910 (32); April (128); July, 1911 (27).
constitutionality of national forests organic and administrative acts; July, 1911 (31, 32).
timber, district 1: July, 1911 (28, 29).
district 2: January (92); July, 1911 (28).
district 3: July, 1911 (30).
measure of damage in innocent; October (62).
refunds in supposed; October (62).
Uniform, Forest Service, January (96).
Ware for camp use, tin or granite; October (63).
Water power, amendment of regulations L-4; July, 1911 (35).
permits; January (96).
right to use at administrative site; July, 1911 (27).

O

Mulford

Issued January 15, 1912.

UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.

HENRY S. GRAVES, Forester.

January Field Program, 1912.

This program of field work and assignments in the Forest Service is issued quarterly on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

OFFICE OF THE FORESTER.

HENRY S. GRAVES, Forester.
ALBERT F. POTTER, Associate Forester.

HERBERT A. SMITH, editor.
FINDLEY BURNS, in charge of technical review.
Assistants in editor's office: BRISTOW ADAMS, DON CARLOS ELLIS, E. R. JACKSON, C. M. BALLARD.
GEORGE B. SUDWORTH, dendrologist; C. D. MELL, assistant dendrologist.
Wood structure studies, W. D. BRUSH, ARTHUR KOEHLER.
Forest distribution studies, W. H. LAMB.
EUGENE S. BRUCE, expert lumberman.
D. D. BRONSON, general inspector.

ACCOUNTS.

Division of Accounts and Disbursements (Forest Service Branch).
M. E. FAGAN, chief of office of accounts; E. A. MELZAR, assistant chief.

OPERATION.

JAMES B. ADAMS, assistant forester, in charge; FRANKLIN W. REED, forest inspector; GEORGE G. ANDERSON, administrative assistant

GEOGRAPHY.—FRED G. PLUMMER, chief.

ATLAS.—G. B. BRUCE.

DRAFTING.—C. A. KOLB.

PHOTOGRAPHY.—A. G. VARELA.

MAINTENANCE.—GEORGE A. BENTLEY, chief.

SILVICULTURE.

W. B. GREELEY, assistant forester, in charge; EARLE H. CLAPP, forest inspector; FRANKLIN H. SMITH, statistician in forest products, special detail.

STATE COOPERATION.—J. G. PETERS, chief.

Collaborators, State cooperative fire protection under the Weeks law.—E. M. Griffith, State forester, Madison, Wis.; E. C. Hirst, State forester, Concord, N. H.; A. F. Hawes, State forester, Burlington, Vt.; William T. Cox, State forester, St. Paul, Minn.; Frank E. Mace, land agent and forest commissioner, Augusta, Me.; C. P. Wilber, State firewarden, Trenton, N. J.; F. W. Besley, State forester, Baltimore, Md.; S. N. Spring, State forester, New Haven, Conn.; C. R. Pettis, superintendent of forests, Albany, N. Y.; F. W. Rane, State forester, Boston, Mass.; F. A. Elliott, State forester, Salem, Oreg.

Study of forest conditions of Porto Rico, in cooperation with the Insular Board of Agriculture—L. S. Murphy, San Juan.

State reports.—W. W. Ashe, J. H. Foster, J. S. Holmes.

SILVICS.—RAPHAEL ZON, chief; S. T. DANA, assistant chief.

Studies, E. H. Frothingham, W. D. Sterrett, C. R. Tillotson, G. N. Lamb, Barrington Moore, Benton MacKaye.

COMPUTING.—W. B. BARROWS.

LIBRARY.—MISS H. E. STOCKBRIDGE.

FOREST MANAGEMENT IN THE EAST.—A. W. WILLIAMSON, acting in charge.

GRAZING.

A. F. POTTER, associate forester, in charge; L. F. KNEIPP, assistant forester; WILL C. BARNES, inspector of grazing.

Grazing studies (in cooperation with F. V. Coville, botanist, Bureau of Plant Industry).—James T. Jardine, inspector of grazing, in charge.

Forage investigations.—Arthur T. Sampson and William A. Dayton, plant ecologists, Washington, D. C.

Range reconnaissance.—Charles E. Fleming, Lynn H. Douglas, Robert R. Hill, Alfred E. Aldous, Washington, D. C.

LANDS.

JAMES B. ADAMS, assistant forester, in charge; O. C. MERRILL, chief engineer; F. H. FOWLER, engineer.

OCCUPANCY.—CHARLES H. SQUIRE, in charge.

CLAIMS.—J. I. PARKER, in charge.

PRODUCTS.

McGARVEY CLINE, in charge, Madison, Wis,

FOREST PRODUCTS LABORATORY (in cooperation with the University of Wisconsin, Madison, Wis.).—McGarvey Cline, director; Howard F. Weiss, assistant director.

Design of laboratory equipment.—Rolf Thelen.

Cooperation.—Carlisle P. Winslow.

Maintenance.—Wm. H. Kempfer, in charge.

Chemistry and Distillation.—L. F. Hawley, in charge; E. Bateman, A. W. Schorger, F. W. Kressman, R. C. Palmer, Jacob M. Johlin, jr.

Engineering.—A. L. Heim, in charge; Frank J. Hallauer, James O. Bixby, O. M. Sutherland.

Pulp and Paper.—H. E. Surface, in charge; Robert E. Cooper, Sidney D. Wells, Charles S. Gwinn.

Timber Physics.—H. D. Tiemann, in charge; Frederick Dunlap, Eloise Gerry, Ollison Craig, C. T. Barnum, M. E. Diemer.

Timber Tests.—John A. Newlin, in charge; Thomas R. C. Wilson, Harold Winter.

Wood Preservation.—Francis M. Bond, in charge; E. W. Peters, Clyde H. Teesdale, James D. MacLean.

Ground-Wood-Pulp Laboratory, Wausau, Wis.—John H. Thickens, in charge; Sidney E. Lunak, C. N. McNaughton.

Pathology (in cooperation with the Bureau of Plant Industry).—C. J. Humphrey, in charge; M. C. Jensen.

WOOD UTILIZATION.—H. S. Sackett, in charge, Fisher Building, Chicago, Ill.

Studies, Hu Maxwell, C. F. Hatch, John T. Harris, Clark W. Gould, Chicago, Ill.

WASHINGTON OFFICE.—O. T. Swan, in charge; A. H. Pierson, R. E. Simmons, Jesse C. Nellis.

ACQUISITION OF LAND UNDER THE WEEKS LAW.

WM. L. HALL, assistant forester, in charge, Washington, D. C.; Clyde Leavitt, forest inspector.

Examination of Lands.—Savannah area, R. C. Hall, forest assistant, in charge; S. H. Marsh, forest assistant, and party; R. F. Hemingway, forest assistant, and party.

Survey of Lands.—Mount Mitchell area, E. D. Fletcher, forest examiner, and party; Savannah area, E. V. Clark, forest examiner, and party; White Top area, J. H. Fahrenbach and Carrington Macfarland, forest assistants.

Reconnoissance and Preliminary Examinations.—Northeastern Tennessee, Verne Rhoades, forest examiner; Pisgah area, R. W. Shields, forest assistant.

Negotiations for Purchase.—White Mountains, K. W. Woodward, forest examiner; Potomac area, E. D. Clark, forest assistant.

DISTRICT 1.

Montana, northeastern Washington, northern Idaho, northwestern South Dakota, northern Michigan, northern Minnesota, and southwestern North Dakota. Office, Hammond Block, Missoula, Mont.

F. A. SILCOX, district forester; E. W. KRAMER, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). W. C. HENDERSON, assistant to the solicitor, in charge; HAROLD H. CLARKE, assistant to the solicitor.

ACCOUNTS.—JOHN A. URBANOWICZ, district fiscal agent.

MAINTENANCE.—R. J. MOORE.

OPERATION.—J. F. PRESTON, assistant district forester.

SILVICULTURE.—R. Y. STUART, assistant district forester.

TIMBER SALES.—Assistant district forester in silviculture.

PLANTING.—H. H. FARQUHAR; HOWARD A. GREEN, forest assistant.

SILVICS.—F. I. ROCKWELL.

Studies, C. N. Whitney, Anaconda, Mont.

Josef Brunner, field agent, Bureau of Entomology, Columbia Falls, Mont.

GRAZING.—C. H. ADAMS, assistant district forester.

LANDS.—R. H. RUTLEDGE, assistant district forester; JOHN D. JONES, assistant.

PRODUCTS.—P. R. HICKS, engineer in wood preservation.

EXPERIMENT STATION.

Priest River.—DONALD R. BREWSTER, Priest River, Idaho.

NATIONAL FORESTS.

IDAHO.

Clearwater.—CHARLES A. FISHER, forest supervisor, Orofino (WU-Am); Alfred B. Hastings, forest assistant.

Coeur d'Alene.—ROSCOE HAINES, acting forest supervisor, Coeur d'Alene (WU-Am); W. W. Morris and Donald R. Bruce, forest assistants; C. H. Gregory, lumberman.

Kaniksu.—See Washington.

Nezperce.—GEORGE V. RING, forest supervisor, Grangeville (WU-Am); J. Arthur Brown, deputy forest supervisor.

Pend Oreille.—J. E. BARTON, forest supervisor, Sandpoint (WU-Am, N, W); Charles F. Howell, deputy forest supervisor; James R. Gillis, forest assistant.

Selway.—FRANK A. FENN, forest supervisor, Kooskia (WU-N).

St. Joe.—THOMAS C. SPAULDING, forest supervisor, St. Maries (Continental-WF); Edward A. Holcomb, deputy forest supervisor; Wilford B. Willey, John E. Keach, and Richard C. Eggleston, forest assistants; E. H. Gregory, lumberman; E. B. Tanner, scaler.

MICHIGAN.

Marquette. Michigan.—W. B. PIPER, acting forest supervisor, East Tawas (WU-Am).

MINNESOTA.

Minnesota.—G. E. MARSHALL, forest supervisor, Cass Lake (WU-Am, GN); J. St. J. Benedict, forest assistant.

Superior.—J. A. FITZWATER, forest supervisor, Ely (WU-GN).

MONTANA.

Absaroka.—JOSEPH D. WARNER, forest supervisor, Livingston (WU-Am, N); Warren F. Hale, forest assistant.

Beartooth.—GLEN A. SMITH, forest supervisor, Billings (WU-Am, N); Arthur H. Abbott, deputy forest supervisor; James C. Whitham, forest assistant.

Beaverhead.—C. K. WYMAN, forest supervisor, Dillon (WU-Am); George E. Martin, deputy forest supervisor; Charles R. Clark, forest assistant.

Bitterroot.—W. W. WHITE, forest supervisor, Missoula (WU-Am, N); M. N. Stickney, deputy forest supervisor; Abbott B. Silva, forest assistant.

Blackfeet.—R. P. MCLAUGHLIN, forest supervisor, Kalispel (WU-Am, GN); D. Dailey Johnson, deputy forest supervisor; J. A. Larsen, forest assistant.

Cabinet.—RALPH H. BUSHNELL, forest supervisor, Thompson Falls (WU-Am, N); Claude W. Griffin, deputy forest supervisor.

Custer.—KNOX MCANALLY, forest supervisor, Miles City (WU-Am, N); Edgar F. White, forest assistant.

Deerlodge.—D. T. MASON, forest supervisor, Anaconda (P-Am, N); Lewis C. Stockdale, deputy forest supervisor; C. N. Whitney and John F. Forsythe, forest assistants.

Flathead.—PAGE S. BUNKER, forest supervisor, Kalispel (WU-Am, GN); John H. Clack, deputy forest supervisor; J. L. Cobbs, forest assistant.

Gallatin.—D. T. CONKLING, forest supervisor, Bozeman (WU-Am, N); Samuel R. Hays, deputy forest supervisor.

Helena.—J. B. SEELY, forest supervisor, Helena (WU-Am, N); Lewis T. Morgan, deputy forest supervisor; Waldo D. Barlow, forest assistant.

Jefferson.—WALLACE S. PERRINE, forest supervisor, Great Falls (WU-Am, N); Wellman Holbrook, deputy forest supervisor; Kenneth D. Swan, forest assistant.

Kootenai.—DORR SKEELS, forest supervisor, Libby (WU-Am, GN); William A. Raymond, deputy forest supervisor; Webster H. Ransom and William C. Latane, forest assistants.

Lewis and Clark.—SCOTT LEAVITT, forest supervisor, Chouteau (WU via Collins-Am, GN via Collins); A. A. Saunders, forest assistant.

Lolo.—ELERS KOCH, forest supervisor, Missoula (WU, P-Am, N); E. C. Clifford and Reuben P. Prichard, forest assistants.

Madison.—CLIFTON W. HUDSON, forest supervisor, Sheridan (WU-Am, N).

Missoula.—D. G. KINNEY, forest supervisor, Missoula (WU, P-Am, N); Rutledge Parker, deputy forest supervisor; Frederick R. Mason, forest assistant.

Sioux.—See South Dakota.

NORTH DAKOTA.

Dakota.—C. A. BALLINGER, forest supervisor, Camp Crook, S. Dak. (WU via Bellefourche-Am via Bellefourche); Arthur F. Oppel, forest assistant.

SOUTH DAKOTA.

Sioux.—C. A. BALLINGER, forest supervisor, Camp Crook (WU via Bellefourche-Am via Bellefourche); Arthur F. Oppel, forest assistant.

WASHINGTON.

Kaniksu.—W. N. MILLAR, forest supervisor, Newport (WU-Am, GN); **Meyer H. Wolff**, deputy forest supervisor; Arnold O. Benson and John C. DeCamp, forest assistants.

DISTRICT 2.

Colorado, Wyoming, South Dakota, Nebraska, and western Kansas. Office, Majestic Building, Denver, Colo.

SMITH RILEY, district forester; T. W. NORCROSS, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). GEORGE E. TROWBRIDGE, assistant to the solicitor, in charge; J. F. LAWSON, assistant to the solicitor.

ACCOUNTS.—H. I. LOVING, district fiscal agent.

OPERATION.—FRED W. MORRELL, assistant district forester.

MAINTENANCE.—F. H. CARROLL.

SILVICULTURE.—S. L. MOORE, assistant district forester.

PLANTING.—SEWARD D. SMITH.

SILVICS.—C. G. BATES.

Studies, Colorado and Wyoming, J. H. Potts, Denver, Colo.

Carl Hartley, consulting pathologist, Washington, D. C.

GRAZING.—J. W. NELSON, assistant district forester.

LANDS.—C. J. STAHL, assistant district forester, R. D. Wyatt, assistant.

EXPERIMENT STATIONS.

Fremont.—W. D. HAYS, Manitou, Colo.

Wagon Wheel Gap.—PETER KEPLINGER, Wagon Wheel Gap, Colo., and B. C. Kadel of the Weather Bureau.

NATIONAL FORESTS.

COLORADO.

Arapaho.—ARTHUR M. COOK, forest supervisor, Fraser (WU-Ad); Alva A. Simpson, deputy forest supervisor; Arthur T. Upson, forest assistant.

Battlement.—JOHN W. LOWELL, Jr., forest supervisor, Collbran (WU-WF, G).

Cochetopa.—EUGENE WILLIAMS, forest supervisor, Saguache (WU-G); Charles P. Bliss, forest assistant.

Colorado.—H. A. E. MARSHALL, forest supervisor, Fort Collins (WU-WF); Harold C. Clark, forest assistant.

Durango.—ERNEST W. SHAW, forest supervisor, Durango (WU-G).

Gunnison.—WILLIAM R. KREUTZER, forest supervisor, Gunnison (WU-WF, G); E. C. Berky, deputy forest supervisor; W. H. Mast, forest assistant.

Hayden.—See Wyoming.

Holy Cross.—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU-WF, G); Albert H. Miller, deputy forest supervisor.

La Sal.—See Utah, district 4.

Leadville.—THEODORE SHOEMAKER, forest supervisor, Leadville (WU, P-WF, G); R. E. Clark, deputy forest supervisor; J. E. Martin, forest assistant.

Montezuma.—RESS PHILLIPS, forest supervisor, Mancos (WU-G); Frank B. Notestein, forest assistant.

Pike.—C. W. FITZGERALD, forest supervisor, Denver (WU, P-Ad, Am, G. US, WF); George A. Duthie, deputy forest supervisor; W. I. Hutchinson, forest assistant, Monument Nursery, Henry G. Reinsch, forest expert; W. Schrader, forest-planting assistant, Monument.

Rio Grande.—A. L. SWEITZER, forest supervisor, Monte Vista (WU-G); Walter F. Bowers, deputy forest supervisor; Jay Higgins, forest assistant.

Routt.—J. H. RATLIFF, forest supervisor, Steamboat Springs (WU-Ad); Ray Peck, deputy forest supervisor; P. J. Paxton, forest assistant.

San Isabel.—J. N. LANGWORTHY, forest supervisor, Westcliffe (WU-G); M. B. Willey, deputy forest supervisor; Albin G. Hamel, forest assistant.

San Juan.—G. P. BARD, forest supervisor, Pagosa Springs (WU-G).

Sopris.—JOHN MCLAREN, forest supervisor, Aspen (WU-WF, G).

Uncompahgre.—HOWARD S. BUSHNELL, forest supervisor, Delta (WU-G); L. E. Cooper, deputy forest supervisor; J. H. Ramskill, forest assistant.

White River.—JAMES A. BLAIR, forest supervisor, Meeker (WU-WF, G); Crosby A. Hoar, forest assistant.

KANSAS.

Kansas.—B. R. H. D'ALLEMAND, forest supervisor, Garden City (WU, P-WF); Garden City Nursery.

NEBRASKA.

Nebraska.—R. G. PIERCE, acting forest supervisor, Halsey (WU-Ad); Halsey Nursery, Harry B. Hulse, forest guard, in charge.

SOUTH DAKOTA.

Black Hills.—PAUL D. KELLETER, forest supervisor, Deadwood (WU-Ad, Am); William Wiehe, deputy forest supervisor, Seward D. Smith, forest assistant.

Harney.—R. P. IMES, forest supervisor, Custer (WU-Ad); Stephen V. Klem, forest assistant.

WYOMING.

Bighorn.—E. N. KAVANAGH, forest supervisor, Sheridan (WU-Ad); Andrew G. Stockwell, deputy forest supervisor; Earl S. Pierce, forest assistant.

Bonneville.—H. EARL FRENCH, forest supervisor, Dubois (WU-Am).

Bridger.—H. C. HALL, forest supervisor, Pinedale (WU-Am).

Hayden.—JAMES BLACKHALL, forest supervisor, Encampment (WU, P-Am); Roy S. Wheeler, forest assistant.

Medicine Bow.—C. M. GRANGER, forest supervisor, Laramie (WU, P-Am); R. A. Stretch, deputy forest supervisor.

Shoshone.—R. W. ALLEN, forest supervisor, Cody (WU-Ad); Fred B. Agee, deputy forest supervisor; Myron W. Thompson, forest assistant.

Sundance.—LOUIS KNOWLES, forest supervisor, Sundance (WU-Ad, Am).

Washakie.—C. G. POOLE, forest supervisor, Lander (WU-Am); Gordon Parker, forest assistant.

DISTRICT 3.

Arizona, Arkansas, Florida, New Mexico, and Oklahoma. Office, Strickler-Luna Building, Albuquerque, N. Mex.

A. C. RINGLAND, district forester; T. W. NORCROSS, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). BLAKE FRANKLIN, assistant to the solicitor, in charge; J. O. SETH, assistant to the solicitor.

ACCOUNTS.—J. J. DUFFY, district fiscal agent.

OPERATION.—A. O. WAHA, assistant district forester; A. S. Peck, assistant district forester, special detail.

MAINTENANCE.— ——— ———.

SILVICULTURE.—R. L. ROGERS, forest examiner; ATHOL A. WYNNE, lumberman.

GRAZING.—JOHN KERR, assistant district forester.

LANDS.—FRANK C. POOLER, assistant district forester.

EXPERIMENT STATION.

Fort Valley.—G. A. PEARSON, Flagstaff, Ariz.

NATIONAL FORESTS.

ARIZONA.

Apache.—JOHN D. GUTHRIE, forest supervisor, Springerville (WU, P-WF); Frederick Winn, deputy forest supervisor; Clifford W. McKibbin, forest assistant.

Chiricahua.—A. H. ZACHAU, forest supervisor, Portal (WU, P-WF); Frank J. Mosher, forest assistant.

Coconino.—WILLARD M. DRAKE, forest supervisor, Flagstaff (WU, P-WF); J. C. Kircher, deputy forest supervisor; Quincy Randles and Max H. Foerster, forest assistants; Robert R. Hill, grazing examiner, reconnaissance.

Coronado.—ROBERT J. SELKIRK, forest supervisor, Tucson (WU, P-WF).

Crook.—T. T. SWIFT, forest supervisor, Safford (WU-WF).

Prescott.—C. H. HINDERER, forest supervisor, Prescott (WU-WF); J. C. McNelty, deputy forest supervisor.

Sitgreaves.—HUGH G. CALKINS, forest supervisor, Snowflake (WU, P-WF); Chas. H. Jennings, deputy forest supervisor.

Tonto.—R. G. WILLSON, forest supervisor, Roosevelt (WU-WF).

Tusayan.—STANTON G. SMITH, forest supervisor, Williams (WU, P-WF); Harold Greene, deputy forest supervisor; Gordon T. Backus, forest assistant.

Zuni.—See New Mexico.

ARKANSAS.

Arkansas.—S. A. CHAPPELL, forest supervisor, Hot Springs (WU, P-WF, P); C. J. Heller, forest assistant.

Ozark.—FRANCIS KIEFER, forest supervisor, Harrison (WU-WF); Ralph C. Huey, deputy forest supervisor; L. L. Janes, forest assistant; George C. Morbeck, forest assistant, reconnaissance.

FLORIDA.

Florida.—I. F. ELDREDGE, forest supervisor, Pensacola; W. F. Hill, deputy forest supervisor; P. D. Edmunds, forest agent; John W. Spencer, forest assistant.

NEW MEXICO.

Alamo.—R. F. BALTHIS, forest supervisor, Cloudcroft (WU, P-WF); Thomas E. McCullough, forest assistant; T. B. Longwell, reconnaissance.

Carson.—C. C. HALL, forest supervisor, Tres Piedras (WU-G); Aldo Leopold, deputy forest supervisor; Ira T. Yarnall, forest assistant; Raymond E. Marsh, reconnaissance.

Chiricahua.—See Arizona.

Datil.—W. H. GODDARD, forest supervisor, Magdalena (WU, P-WF); Robert L. Deering, deputy forest supervisor; H. Basil Wales, forest assistant.

Gila.—DON P. JOHNSTON, forest supervisor, Silver City (WU, P-WF); Ausburn H. Douglas, deputy forest supervisor; Herman Krauch, forest assistant; Chas. H. Kissam, forest agent; P. P. Pitchlynn, reconnaissance; Fort Bayard Nursery, H. C. Turner, forest planting assistant.

Jemez.—FRANK E. ANDREWS, forest supervisor, Santa Fe (WU, P-WF); B. M. Thomas, deputy forest supervisor; Ernest C. Pegg, forest assistant.

Lincoln.—J. A. KINNEY, forest supervisor, Capitan (WU, P-WF).

Manzano.—W. R. MATTOON, forest supervisor, Albuquerque (WU, P-WF); James F. Mullen, deputy forest supervisor.

Pecos.—THOS. R. STEWART, forest supervisor, Cowles (WU, P-WF); Las Gallinas Nursery, H. D. Burrall, forest planting assistant.

Zuni.—W. R. MATTOON, forest supervisor, Albuquerque (WU, P-WF); James F. Mullen, deputy forest supervisor.

OKLAHOMA.

Wichita.—FRANK RUSH, game warden, in charge, Cache (WU-WF).

DISTRICT 4.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Forest Service Building, Ogden, Utah.

E. A. SHERMAN, district forester; J. P. MARTIN, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). R. F. FEAGANS, assistant to the solicitor, in charge.

ACCOUNTS.—Q. R. CRAFT, district fiscal agent.

OPERATION.—A. C. MCCAIN, assistant district forester.

MAINTENANCE.—FELIX T. MOORE.

BOUNDARIES.—R. V. R. REYNOLDS.

SILVICULTURE.—O. M. BUTLER, assistant district forester; D. F. SEERY, lumberman.

PLANTING.—J. M. FEATHEROLF.

SILVICS.—E. R. HODSON.

GRAZING.—HOMER E. FENN, assistant district forester.
LANDS.—T. C. HOYT, assistant district forester.
SUPPLY DEPOT.—A. M. SMITH, property clerk.
PROPERTY AUDIT.—J. G. FALCK, property auditor.

NATIONAL FORESTS.

ARIZONA.

Dixie.—See Utah.
Kaibab.—JAMES L. PELTON, forest supervisor, Kanab, Utah (WU-WF).

IDAHO.

Boise.—E. GRANDJEAN, forest supervisor, Boise (WU-Am); M. S. Benedict, deputy forest supervisor; Dana Parkinson, forest assistant.
Cache.—See Utah.
Caribou.—G. G. BENTZ, forest supervisor, Montpelier (WU-Am).
Challis.—DAVID LAING, forest supervisor, Challis (WU-Am).
Idaho.—J. E. ROTHERY, forest supervisor, McCall (WU-P); Hubert C. Williams, forest assistant.
Lemhi.—C. I. HUDDLE, forest supervisor, Mackay (WU-Am); S. B. Arthur, deputy forest supervisor; A. L. Brower, forest assistant.
Minidoka.—WILLIAM MCCOY, forest supervisor, Oakley (WU-Am).
Palisade.—FRANK J. RYDER, forest supervisor, St. Anthony (WU-Am); Lucas W. Hastings, deputy forest supervisor.
Payette.—GUY B. MAINS, forest supervisor, Emmett (WU-Am); Lawrence J. Phelan, deputy forest supervisor; Lee O. Miles, forest assistant.
Pocatello.—J. F. BRUINS, forest supervisor, Pocatello (WU-Am); Pocatello Nursery, P. T. Wrensted, forest ranger.
Salmon.—JAMES M. RYAN, forest supervisor, Salmon (WU-Am); John A. Pearson, deputy forest supervisor; Irwin W. Cook, forest assistant.
Sawtooth.—C. N. WOODS, forest supervisor, Hailey (WU-Am); H. G. McPheters, deputy forest supervisor; Samuel B. Locke, forest assistant.
Targhee.—CHESTER B. MORSE, forest supervisor, St. Anthony (WU-Am); Charles A. Beam, deputy forest supervisor; C. E. Dunston, deputy forest supervisor; James B. Saxton, forest assistant.
Weiser.—J. B. LAFFERTY, forest supervisor, Weiser (WU-Am); W. M. Campbell, deputy forest supervisor; A. E. Oman, forest assistant.

NEVADA.

Humboldt.—C. SYDNEY TREMEWAN, forest supervisor, Elko (WU-WF); Geo. C. Thompson, deputy forest supervisor; Herman Work, forest assistant.
Moapa.—THOMAS J. COLLINS, acting forest supervisor, Las Vegas (WU-Am).
Nevada.—R. F. MATHIAS, forest supervisor, Ely (WU-WF); Rudolph Dieffenbach, deputy forest supervisor.
Santa Rosa.—W. W. BLAKESLEE, forest supervisor, Paradise.
Toiyabe.—HERBERT GRAFF, forest supervisor, Austin (WU, P-WF).

UTAH.

Ashley.—W. M. ANDERSON, forest supervisor, Vernal (WU-WF); Lester E. Hitchcock, forest assistant.

Cache.—CLINTON G. SMITH, forest supervisor, Logan (WU-Am); J. W. Humphrey, deputy forest supervisor; E. C. Shepard, forest assistant.

Dixie.—JOHN RAPHAEL, forest supervisor, St. George (WU-WF).

Fillmore.—WM. HURST, forest supervisor, Beaver (WU-WF).

Fishlake.—CARL B. ARENTSON, forest supervisor, Salina (WU-WF).

La Sal.—HENRY A. BERGH, forest supervisor, Moab (WU-WF).

Manti.—A. W. JENSEN, forest supervisor, Ephraim (WU-WF); Ernest Winkler, deputy forest supervisor; F. T. McLean, forest assistant.

Minidoka.—See Idaho.

Nebo.—DAN S. PACK, forest supervisor, Nephi (WU-WF).

Pocatello.—See Idaho.

Powell.—GEO. H. BARNEY, forest supervisor, Escalante (WU-WF).

Sevier.—O. C. SNOW, forest supervisor, Panguitch (WU-WF); W. N. Sparhawk, forest assistant.

Uinta.—W. I. PACK, forest supervisor, Provo (WU-WF); J. Carl Allred, deputy forest supervisor; Nels B. Eckbo, forest examiner.

Wasatch.—E. H. CLARKE, forest supervisor, Salt Lake City (WU, P-Am, WF); Wastach Nursery, N. J. Fetherolf, forest planting assistant.

WYOMING.

Ashley.—See Utah.

Caribou.—See Idaho.

Palisade.—See Idaho.

Targhee.—See Idaho.

Teton.—R. E. MILLER, forest supervisor, Jackson (WU-Am); H. B. Maris, forest assistant.

Wyoming.—JAMES E. JEWELL, forest supervisor, Afton (WU-Am); John E. Ingram, forest assistant.

DISTRICT 5.

California and southwestern Nevada. Office, First National Bank Building, San Francisco, Cal.

COERT DUBOIS, district forester; WALTER L. HUBER, district engineer; CLARENCE WILEY, inspector of records.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor in charge; MAURY CURTIS, assistant to the solicitor.

ACCOUNTS.—F. C. THOMPSON, district fiscal agent.

OPERATION.—ROY HEADLEY, assistant district forester.

MAINTENANCE.—F. H. SMITH.

SILVICULTURE.—T. D. WOODBURY, assistant district forester; SWIFT BERRY, forest assistant.

SILVICS.—J. A. MITCHELL, forest assistant.

E. P. Meinecke, consulting pathologist, San Francisco, Cal.

GRAZING.—JOHN H. HATTON, assistant district forester.

LANDS.—L. A. BARRETT, assistant district forester.

PRODUCTS.—C. STOWELL SMITH, assistant district forester, in charge; C. A. Kupfer, A. K. Armstrong, Geo. M. Hunt, San Francisco, Cal.; H. E. McKenzie, Berkeley, Cal.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P-WF); Ernest B. Long, deputy forest supervisor; Jesse W. Hough, forest assistant; Serope Y. Parnay, forest planting assistant, San Bernardino.

California.—D. P. GODWIN, forest supervisor, Willows (P-WF); A. W. Bartlett, deputy forest supervisor; S. W. Strothman, forest assistant.

Cleveland.—H. N. WHEELER, forest supervisor, San Diego (WU, P-WF).

Eldorado.—EVAN W. KELLEY, forest supervisor, Placerville (WU-WF); George W. Lyons, forest assistant.

Inyo.—A. H. HOGUE, forest supervisor, Bishop (WU-WF).

Kern.—W. J. RUSHING, forest supervisor, Bakersfield (WU-WF); Jas. O. Morrow, deputy forest supervisor; Neal T. Childs, forest assistant.

Klamath.—W. B. RIDER, forest supervisor, Yreka (WU-WF); J. R. Hall, deputy forest supervisor; Shirley W. Allen and Douglas K. Noyes, forest assistants.

Lassen.—L. A. H. KLING, forest supervisor, Red Bluff (P-WF); R. H. Boerker, forest assistant.

Modoc.—C. E. RACHFORD, forest supervisor, Alturas (P-WF); Vernon L. Bonner, deputy forest supervisor; Belknap C. Goldsmith, forest assistant.

Mono.—See Nevada.

Monterey.—N. H. SLOANE, acting forest supervisor, Arbolado (WU, Monterey-WF, Monterey).

Plumas.—D. N. ROGERS, forest supervisor, Quincy (WU, Keddie, Cal.-WF); W. G. Durbin, deputy forest supervisor; R. S. Maddox and George R. Orr, forest assistants; Patrick Kennedy, reconnaissance.

Santa Barbara.—D. D. BRONSON, acting forest supervisor, Santa Barbara (P-WF) H. G. Merrill, deputy forest supervisor; W. H. Moore, forest assistant.

Sequoia.—ALLAN B. PATTERSON, forest supervisor, Hot Springs, Tulare County (WU via Portersville-WF); W. C. Burton, deputy forest supervisor; S. W. Wynne, forest assistant.

Shasta.—R. F. HAMMATT, forest supervisor, Sisson (P-WF); M. R. Tillotson, deputy forest supervisor; Stewart B. Show and Edward I. Kotok, forest assistants; F. L. Rickey, planting assistant; C. H. Ensign, reconnaissance.

Sierra.—P. G. REDINGTON, forest supervisor, Northfork (WU via Friant-WF, Friant); M. A. Benedict, deputy forest supervisor; Ernest G. Dudley, forest assistant.

Stanislaus.—R. W. AYRES, forest supervisor, Sonora (WU-WF); J. V. Wulff and Louis T. Larsen, forest assistants.

Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU-WF); M. B. Pratt, deputy forest supervisor; Wm. H. Gallaher and K. Mills, forest assistants; J. C. Elliott, reconnaissance.

Trinity.—W. A. HUESTIS, forest supervisor, Weaverville (WU-WF); J. D. Coffman, deputy forest supervisor; Ernest V. Jotter and Howard DeForest, forest assistants.

NEVADA.

Inyo.—See California.

Mono.—WM. M. MAULE, forest supervisor, Gardnerville (WU-WF); T. C. West, deputy forest supervisor; Rex King, forest assistant.

Tahoe.—See California.

OREGON.

Eldorado.—See California.

DISTRICT 6.

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

GEO. H. CECIL, district forester; W. E. HERRING, district engineer; R. E. BENEDICT, forest inspector.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge; D. F. MCGOWAN, assistant to the solicitor.

ACCOUNTS.—A. H. COUSINS, district fiscal agent.

OPERATION.—C. H. FLORY, assistant district forester.

MAINTENANCE.—SHIRLEY BUCK.

SILVICULTURE.—F. E. AMES, assistant district forester; W. T. ANDREWS, lumberman.

PLANTING.—J. F. KÜMMEL.

SILVICS.—T. T. MUNGER.

Studies, E. J. Hanzlik, Portland; G. A. Bright, Portland.

GRAZING.—T. P. MACKENZIE, assistant district forester.

LANDS.—C. J. BUCK, assistant district forester; G. F. MEAD, examiner.

Land Classification.—G. W. Peavy, F. W. Cleator, R. W. Flournoy.

PRODUCTS.—J. B. KNAPP, assistant district forester, in charge; H. B. Oakleaf, C. W. Dunning, J. F. Pernot, Portland; O. P. M. Goss, C. W. Zimmerman, H. P. Wyckoff, Seattle, Wash.

NATIONAL FORESTS.

ALASKA.

Chugach.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU-AP, Am); Thos. M. Hunt, deputy forest supervisor; Bruce Hoffman, forest assistant.

Tongass.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU-AP, Am); Max Rothkugel, forest assistant.

CALIFORNIA.

Crater.—See Oregon.

Siskiyou.—See Oregon.

OREGON.

Cascade.—C. R. SEITZ, forest supervisor, Eugene (WU, P-WF); F. B. Kellogg, deputy forest supervisor; B. Frank Heintzleman, forest assistant.

Crater.—M. L. ERICKSON, forest supervisor, Medford (WU, P-WF); S. S. Swenning, deputy forest supervisor; H. D. Foster and William E. White, forest assistants.

Deschutes.—J. Roy Harvey, forest supervisor, Bend (WU, PT & T-Ad via Opal City, GN via Opal City).

Fremont.—Gilbert D. Brown, forest supervisor, Lakeview (WU via Reno, Nev.-WF); Norman G. Jacobson, forest assistant; Nelson J. Billings, grazing assistant.

Klamath.—See California.

Malheur.—Cy. J. Bingham, forest supervisor, John Day (WU via Baker City-Am, WF via Baker City); D. B. Reynolds, deputy forest supervisor.

Minam.—H. W. Harris, forest supervisor, Wallowa (WU-Am); S. A. Brown, deputy forest supervisor.

Ochoco.—Homer Ross, forest supervisor, Prineville (PT & T-Am); Ephraim Barnes, deputy forest supervisor.

Oregon.—T. H. Sherrard, forest supervisor, Portland (WU, P-Am, WF, N); Ralph S. Shelley, deputy forest supervisor; W. B. Osborne, forest assistant.

Paulina.—W. W. Cryder, forest supervisor, Crescent (WU, PT & T-Ad, GN via Opal City).

Santiam.—N. F. MacDuff, forest supervisor, Albany (WU-WF); E. B. Starr, forest assistant.

Siskiyou.—R. L. Fromme, forest supervisor, Grants Pass (WU, P-WF); Allen Hodgson, deputy forest supervisor; H. Haefner, forest assistant.

Siuslaw.—A. E. Cohoon, forest supervisor, Eugene (WU, P-WF); David E. Fitton, deputy forest supervisor.

Umatilla.—Hugh B. Rankin, forest supervisor, Heppner (WU-Am).

Umpqua.—S. C. Bartrum, forest supervisor, Roseburg (WU, P-WF); E. H. McDaniels, deputy forest supervisor; Arthru Kerr, forest assistant.

Wallowa.—H. W. Harris, forest supervisor, Wallowa (WU-Am); Charles Black, grazing assistant; Robie M. Evans, forest assistant.

Wenaha.—See Washington.

Whitman.—Henry Ireland, forest supervisor, Sumpter (WU via Baker City-Am, WF via Baker City); M. L. Merritt, deputy forest supervisor; Harold P. Gilkey, forest assistant; Edwin C. Erickson, scaler.

WASHINGTON.

Chelan.—G. W. Milham, forest supervisor, Chelan (PT & T-Am, GN via Wenatchee); H. M. Coan, forest assistant.

Columbia.—H. O. Stabler, forest supervisor, Portland, Oreg. (WU, P-Am, WF, N); W. W. G. Hastings, deputy forest supervisor; A. R. Wilcox and Lage Wernstedt, forest assistants.

Colville.—C. C. Reid, forest supervisor, Republic (WU, P-Am, GN); F. W. Cleator, deputy forest supervisor; Edward W. Headsten, forest assistant.

Okanogan.—H. M. Hale, forest supervisor, Okanogan; V. V. Harpham, deputy forest supervisor.

Olympic.—P. S. Lovejoy, forest supervisor, Olympia (WU-Am, GN, N); A. A. Parker, deputy forest supervisor; William H. Gibbons, forest assistant.

Rainier.—G. F. Allen, forest supervisor, Tacoma (WU, P-Am, N); P. T. Harris, deputy forest supervisor; E. J. Fenby, forest assistant.

Snoqualmie.—B. P. KIRKLAND, forest supervisor, Seattle (WU, P-N, GN, WF); Lewis A. Treen, jr., deputy forest supervisor; Walter H. Leve, forest assistant.
Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P-Am, GN, N); F. H. Brundage, deputy forest supervisor; Herman M. Johnson, forest assistant.
Wenaha.—J. M. SCHMITZ, forest supervisor, Walla Walla (WU-Am, N).
Wenatchee.—A. H. SYLVESTER, forest supervisor, Leavenworth (WU-Am, GN); C. P. Willis, forest assistant.

SERVICE CHANGES.

APPOINTED.

FORESTER.—Dendrology: Arthur Koehler, xylotomist.

PRODUCTS.—Laboratory: Ollison Craig, James D. MacLean, Harold R. Winter, and Frank J. Hallauer, assistant engineers in forest products; Henry E. Surface, chemical engineer in forest products; Robert E. Prince and Frank J. Yanker, laboratory aids and engineers.

APPALACHIAN.—Charles E. Beaumont, Loren L. Bishop, Elwood P. Bushnell, Jay J. Fritz, Walter A. Hopson, Carrington Macfarlane, and Percy T. Smith, forest assistants.

DISTRICT 1.—District office: John C. Beebe, junior engineer; Charles H. Ruth, topographic draftsman. Operation: William W. Fuller, assistant forest ranger, Bitterroot National Forest; Ralph T. Abbott, assistant forest ranger, Custer National Forest; Ben P. Martin, assistant forest ranger, Madison National Forest; Frank Campbell and Peter A. Pequet, assistant forest rangers, Marquette National Forest; Harry A. Goodale, Albert Frutig, and Walter W. Smith, assistant forest rangers, Michigan National Forest.

DISTRICT 2.—Operation: Edw. A. Brown, clerk (stenographer and typewriter), Bonneville National Forest; Edw. J. Dickson, clerk (stenographer and typewriter), Pike National Forest; James H. McCuen, clerk (stenographer and typewriter), Jennie R. Edwards, clerk (stenographer and typewriter), Sopris National Forest; Bernard M. Shoemaker, clerk, Leadville National Forest; Everard S. Keithley, forest assistant, Durango National Forest; Dwight S. Jeffers, forest assistant, Medicine Bow National Forest; Huber C. Hilton, forest assistant, Bighorn National Forest; William R. Kenney, assistant forest ranger, Uncompahgre National Forest; Joseph Thane, assistant forest ranger, San Juan National Forest.

DISTRICT 3.—Operation: Dayton G. Darrah, assistant forest ranger, Carson National Forest; Glen W. Dickinson, forest clerk, Florida National Forest; Adolph G. McCloskey, clerk, Gila National Forest; Roger A. Morse, forest clerk, Tusayan National Forest. Lands: Winifred A. Kilburn, clerk (stenographer and typewriter).

DISTRICT 4.—District office: Gladys O. Elliott, clerk (stenographer and typewriter); Florence E. Cooney, clerk (typewriter); Stella Staley, clerk (typewriter). Operation: Hubert C. Williams, forest assistant, Idaho National Forest; Louis V. Woulfe, clerk, Minidoka National Forest; Bessie A. Sheppard, clerk (stenographer and typewriter), Manti National Forest.

DISTRICT 5.—District office: Geo. E. Luttrell, clerk, bookkeeper; Theodore C. Zschokke, forest agent; John F. Boland, clerk (stenographer and typewriter). Operation: Alice Chittenden, typewriter, Modoc National Forest; Irene Sturgis, clerk (stenographer and typewriter), Santa Barbara National Forest; Fae Larison, clerk (stenographer and typewriter), Shasta National Forest; Edwin N. Purvis, clerk (stenographer and typewriter), Sierra National Forest; Ruth G. Trimble, clerk (stenographer and typewriter), Trinity National Forest. Products: Geo. M. Hunt, assistant chemist in forest products.

DISTRICT 6.—Operation: Maud V. Ferbrache, clerk (stenographer and typewriter). Silviculture: Harold H. Barbur, clerk, computer; Russell G. Pond, computer. Lands: Edward Dinan, expert. Products: Carroll W. Dunning, statistician in forest products; Halsey P. Wyckoff, assistant engineer in forest products.

RESTORED TO THE ROLLS.

DISTRICT 1.—Operation: Richard C. Eggleston, forest assistant, St. Joe National Forest.

DISTRICT 2.—Operation: Roy G. Waters, assistant forest ranger, Durango National Forest; John B. Green, assistant forest ranger, Holy Cross National Forest; Walter A. Wood, forest clerk, Montezuma National Forest.

DISTRICT 3.—Harry R. Batterton, assistant forest ranger, Apache National Forest; Harry C. Hall, deputy forest supervisor, Prescott National Forest.

DISTRICT 4.—Office of district forester: Charles L. Smith, forest supervisor (engaged upon examination of lands for exchange with State of Idaho). Operation: George W. Smith, assistant forest ranger, Challis National Forest.

DISTRICT 5.—District office: Minnie B. Lamson, clerk (stenographer and typewriter). Operation: Elmer H. McClure, assistant forest ranger, California National Forest; William J. Hoskins, assistant forest ranger, Inyo National Forest.

DISTRICT 6.—Operation: Laura W. Cottrell, map colorist.

CHANGE IN DESIGNATION.

DISTRICT 1.—District office: Edwin W. Kramer from constructing engineer to hydroelectrical engineer.

TRANSFERRED.

DISTRICT 1.—Silviculture: Warren F. Hale, forest assistant, from Helena National Forest to Absaroka National Forest; John C. De Camp, forest assistant, from district 2 to Kaniksu National Forest; Wilford B. Willey, forest assistant, from Selway National Forest to St. Joe National Forest; John E. Keach, forest assistant, from Helena National Forest to St. Joe National Forest; Howard A. Green, forest assistant, from Nez Perce National Forest to district office.

DISTRICT 2.—Operation: Herbert N. Wheeler, forest supervisor, Colorado National Forest to Cleveland National Forest, district 5; Walter J. Morrill, forest supervisor, Rio Grande National Forest to Washington office; G. P. Bard, deputy forest supervisor, White River National Forest to San Juan National Forest; A. L. Sweitzer, forest supervisor, San Juan National Forest

to Rio Grande National Forest; Otis M. Wimmer, forest ranger, district office to Sopris National Forest; Herbert E. Willis, assistant forest ranger, Montezuma National Forest to Durango National Forest; Fred J. Dingler, assistant forest ranger, Kootenai National Forest, district 1, to Medicine Bow National Forest; Kenson J. Helmick, assistant forest ranger, Holy Cross National Forest to Gunnison National Forest. Silviculture: George R. Morrison, forest assistant, Wagon Wheel Gap Experiment Station to Fremont Experiment Station; Peter Keplinger, forest assistant, San Juan National Forest to Wagon Wheel Gap Experiment Station ; Seward D. Smith, forest assistant, district office to Black Hills National Forest; Huber C. Hilton, forest assistant, Bighorn National Forest to Medicine Bow National Forest; John C. De Camp, forest assistant, Durango National Forest to district 1; Arthur F. C. Hoffman, forest assistant, White River National Forest to San Juan National Forest; Gordon Parker, forest assistant, Bridger National Forest to Washakie National Forest. Products: Harold S. Betts, assistant district forester, district office to Madison.

District 3.—Operation: Susie P. Barksdale, clerk, to district 7; Robert P. A. Johnson, forest ranger, from Carson National Forest to district office; Leo E. Anderson, assistant forest ranger, from Alamo National Forest to Carson National Forest; Robert R. Moak, assistant forest ranger, from Zuni National Forest to Chiricahua National Forest; Frank J. Mosher, forest assistant, from Pecos National Forest to Chiricahua National Forest; John W. Dorman, assistant forest ranger, from Tusayan National Forest to Coconino National Forest; John W. Spencer, forest assistant, from Carson National Forest to Florida National Forest; Edwin C. Hamilton, topographical draftsman, and Jennings D. McLeod, assistant forest ranger, from Jemez National Forest to Ozark National Forest; John A. Adams and Dave Winbray, assistant forest rangers, Daniel D. Harkness and Thomas B. Longwell, forest rangers, from Sitgreaves National Forest to Tonto National Forest. Silviculture: Margaret E. Baker, clerk (stenographer and typewriter), and Robert W. Shields, forest assistant, to district 7; Oliver F. Bishop and Raymond E. Marsh, forest assistants, from Carson National Forest to Ozark National Forest; George C. Morbeck, forest assistant, from Jemez National Forest to Ozark National Forest; Robert S. Wallace, forest assistant, from Gila National Forest to Ozark National Forest; Albert E. Moss, forest assistant, from Carson National Forest to Pecos National Forest.

District 4.—Operation: Reese W. Taylor, forest assistant, Sevier National Forest to Targhee National Forest; assistant forest rangers—Paul L. Travis, Wyoming National Forest to Santa Rosa National Forest; William C. Shepard, Targhee National Forest to Palisade National Forest; Lucas W. Howard, Wasatch National Forest to Cache National Forest. District office: Elizabeth M. Cook, forest clerk, to Washington office.

District 5.—Operation: Harold A. E. Marshall, forest supervisor, from Cleveland National Forest to Colorado National Forest, district 2; Jean Raison, clerk (stenographer and typewriter), from Bureau of the Census, Washington, to district office.

District 6.—Operation: William H. Thompson, assistant forest ranger, district 4, to Whitman National Forest; W. E. Claflin, clerk (stenographer and typewriter), Santiam National Forest to Bureau of Plant Industry.

PROMOTED IN RANK.

DISTRICT 1.—Operation: D. Dailey Johnson, from forest ranger, Beartooth National Forest, to deputy forest supervisor, Blackfeet National Forest.

DISTRICT 2.—Operation: G. P. Bard, deputy forest supervisor, White River National Forest, to forest supervisor, San Juan National Forest; F. H. Carroll, forest clerk, to chief of maintenance, district office.

DISTRICT 3.—Operation: David L. Williams, from assistant forest ranger to forest ranger, Pecos National Forest; Robert Thompson, from assistant forest ranger to forest ranger, Tonto National Forest.

DISTRICT 4.—Operation: Forman T. McLean, forest assistant, to deputy forest supervisor, Manti National Forest; assistant forest rangers to forest rangers—David O. Theurer, Cache National Forest; James F. Matthews, Toiyabe National Forest.

DISTRICT 5.—Operation: Percy L. Day, from deputy forest supervisor, Cleveland National Forest, to forest supervisor, Monterey National Forest.

LEAVE WITHOUT PAY.

DISTRICT 1.—District office: Roy L. Medcalfe, clerk (stenographer and typewriter). Operation: Whiting Alden, forest assistant, Cabinet National Forest; Elwood I. Terry, forest assistant, Deerlodge National Forest; Nelson C. Brown, deputy forest supervisor, Kaniksu National Forest; assistant forest rangers—George E. McKinsey, Beartooth National Forest; Thomas A. Clapp, William W. Fuller, Walter F. Gilliam, James D. Vance, and Stephen A. Wallace, Bitterroot National Forest; Justin K. Dwinelle and Raymond J. Smith, Blackfeet National Forest; James L. Adams and Rollo Older, Cabinet National Forest; Harvey Fearn and Thomas E. Robinson, Coeur d'Alene National Forest; Foster J. Smith, Deerlodge National Forest; Roy E. Bonham, Richard N. Bradley, Armon E. Havens, Ellis B. Hoke, and Ray I. Trueman, Flathead National Forest; Albert S. Hapner, Gallatin National Forest; Robert L. Hess, Thomas E. Herrington, Robert C. St. Clair, and Russell V. Tanner, Kootenai National Forest; Frank J. Jefferson and Harley M. Massie, Lewis and Clark National Forest; Robert L. Townsend, Madison National Forest; Peter A. Pequet, Marquette National Forest; Harry A. Goodale and Walter W. Smith, Michigan National Forest; Milo M. Hoyt, Missoula National Forest; Thomas Crossley, William V. Manring, and Charles A. Rice, Nezperce National Forest; Phil S. Armstrong, James Campbell, Walter Glen, Mark F. Kelley, W. Karl Loughborough, Ernest A. MacKay, Claude C. Parker, and Harvey W. Phillips, Pend Oreille National Forest; Thomas S. Rackliff and Louis Fitting, Selway National Forest; William C. Bessey and Edmund C. Johnson, St. Joe National Forest; Alexander T. MacNab, Sioux National Forest; forest rangers—Abel C. Berglund and Lea Marston, Gallatin National Forest.

DISTRICT 2.—Operation: David G. Belt, clerk, district office; Anna C. Klett, clerk (stenographer and typewriter), district office; Scovel H. Johnson, agent, district office; Sidney H. Axmear, forest clerk, Bonneville National Forest; John Bentley, jr., deputy forest supervisor, White River National Forest; assistant forest rangers—Leo F. Buchholz, Charles W. Euler, Arapaho National Forest; Walter J. Hill, Bonneville National Forest; George J. Belknap, Bridger National Forest; James A. Blath-

erwick, Durango National Forest; John O. Eames, James C. Jensen, Hayden National Forest; Ben Burch, Medicine Bow National Forest; Theodore Faunce, Montezuma National Forest; Norman B. Price, San Juan National Forest; John K. Rollinson and Simon Snyder, Shoshone National Forest; Herbert J. States, Washakie National Forest.

DISTRICT 3.—Silviculture: Arthur B. Recknagel, assistant district forester, district office; John S. Boyce, forest assistant, Coconino Experiment Station; Otto F. Swenson, forest assistant, Pecos National Forest.

DISTRICT 4.—Operation: Abraham Rosemond, forest assistant, Manti National Forest; assistant forest rangers—Cyrus T. McCall, Idaho National Forest, William M. Mace, Kaibab National Forest; Clarence E. Favre, Payette National Forest; Paul Walter, Salmon National Forest; Odo R. Thomas, Uinta National Forest; William L. Thomas, Weiser National Forest; Lillian R. Jones, forest clerk, Nevada National Forest. District office: Dorris Head, clerk (stenographer and typewriter); Mary L. Ring, clerk.

DISTRICT 5.—Operation: Francis P. Porcher, deputy forest supervisor, Lassen National Forest; John C. Wells, forest ranger, California National Forest; Sylvester W. Strothman, forest assistant, California National Forest; Clinton A. Langstaff, clerk (stenographer and typewriter), Shasta National Forest; John F. Sivertson, forest ranger, Tahoe National Forest; John T. Noddin, forest ranger, Sierra National Forest; Ruth M. Lyle, clerk, Shasta National Forest; assistant forest rangers—John Grand and James. G. Stanchfield, Angeles National Forest; Charles W. Bates and Clarence L. Russell, California National Forest; James A. Brown, Cleveland National Forest; Alvin T. Bodle and William J. Hoskins, Inyo National Forest; Michael H. McCarthy, Klamath National Forest; Lemuel M. Wright, Mono National Forest; William S. Everts, Monterey National Forest; Zachary T. Davidson and Ren S. Featherstone, Santa Barbara National Forest; Fred Hansen, Shasta National Forest; William H. Parkinson and Jesse E. Roberts, Sierra National Forest; Robert C. Woodburn and Walter S. Barton, Tahoe National Forest. District office: Fred Weber, clerk; Minnie B. Lamson, clerk (stenographer and typewriter).

DISTRICT 6.—Operation: Walter F. Wright, assistant forest ranger, Crater National Forest; Clinton W. Combs, assistant forest ranger, Fremont National Forest; Herbert J. Miles, forest assistant, Malheur National Forest; Charles C. Hon, assistant forest ranger, Ochoco National Forest; George R. Ledford, assistant forest ranger, Oregon National Forest; Earl Austin, assistant forest ranger, Paulina National Forest; Hugh V. Anderson, assistant forest ranger, Siskiyou National Forest; U. L. Upson, clerk, Siskiyou National Forest; assistant forest rangers—E. E. Harpham, Clarence J. Ingram, E. H. Lough, and U. F. McLaughlin, Umpqua National Forest; Corydon P. Cronk, Siuslaw National Forest.

FURLOUGHED.

DISTRICT 2.—Operation: Assistant forest rangers—Thomas O. Patterson, Clayton Winterstein, Battlement National Forest; W. F. Bates, Walter G. Brown, Colorado National Forest; Eldon W. Hauser, Gunnison National Forest; Edw. F. Heaton, Leadville National Forest; Harold S. Priestley, Montezuma National Forest; Stanley R. Brock, Frank E. Stapleton, Routt National Forest; Edw. N. Brown, Sopris

National Forest; Truman O. Foley, Uncompahgre National Forest; Walter T. Schmehl, Washakie National Forest; Robert K. Potter, White River National Forest; Otis D. Henton, Bonneville National Forest.

District 3.—Operation: Isabel H. Mordy, forest clerk, Datil National Forest; Lilie A. Cheshire, clerk, Jemez National Forest; Luetta C. Steinemann, clerk (stenographer and typewriter), Tusayan National Forest; James P. Leese, forest ranger, Jemez National Forest; Davis B. Rudd, forest ranger, Sitgreaves National Forest; Jacob L. Pritchard, forest ranger, Apache National Forest; assistant forest rangers—Raymond E. Hopson, Apache National Forest; Edw. H. Rushworth, Carson National Forest; Roy H. Miller, Crook National Forest; Percy Reid and Joseph W. Jackson, Gila National Forest; Daniel R. Carter and Thomas Verner, Jemez National Forest; James R. Ewell, Pecos National Forest; Samuel E. Day, jr., Zuni National Forest.

District 4.—Operation: Assistant forest rangers—Edmund B. S. Spencer, Cache National Forest; Matthew Bowers, Manti National Forest; James J. McKelvey, Sawtooth National Forest; Forest Turner, Sawtooth National Forest.

District 5.—Operation: Deputy forest rangers—Alley C. Keller and Samuel B. Clifton, Angeles National Forest; assistant forest rangers—Jesse L. High and Elmer H. McClure, California National Forest; Eugene T. Benney, Irven M. Fulkerth, John M. Hughes, William F. E. Kelly, and Walter L. Parsons, Eldorado National Forest; Edmund M. Hufford, Wm. J. Spalding, and Jonathan M. Stark, Lassen National Forest; Geo. Bettandorff and William J. Lunsford, Modoc National Forest; Birney William Adams, Monterey National Forest; Leonard P. Wygle, Plumas National Forest; William F. Blackburn, Santa Barbara National Forest; Ross A. McCloud, Shasta National Forest; Ninion E. Duncan, Sierra National Forest; Hedley L. Mero, Stanislaus National Forest; William D. Campbell and George M. Noyes, Tahoe National Forest; Oscar O. Hays, John W. Larson, Samuel A. Shield, John R. Sorenson, and Wm. H. Woodhams, jr., Trinity National Forest.

District 6.—Operation: Edward A. Braniff, forest supervisor, Crater National Forest; Frederick Hanson, forest ranger, Olympic National Forest; assistant forest rangers—Thos. H. Griggs, Paulina National Forest; Oliver C. Klingensmith, Joseph L. Mackechnie, Jos. G. G. Morgan, Edgar J. Murnen, Robt. J. O'Farrell, William Sethe, and Ed Tittle, Rainier National Forest; Revis Costello, Siskiyou National Forest; Clarence Anderson, Wiley E. Escher, M. Donald Knapp, Ernest J. Moore, Leland S. Wellington, Wendell R. Whitney, Snoqualmie National Forest; Amos O. Masiker, Chelan National Forest; Edward S. Kerby and Albert L. Peachy, Crater National Forest; John H. Blinn, Frederic V. Bradford, and Grover C. Conger, Malheur National Forest; Tillman F. Foster and William C. Sweat, Okanogan National Forest; Geo. W. Hutton and Vinton McKibben, Olympic National Forest; Horace Berry, W. O. B. Davidson, Martin J. Gribble, Carl C. Hill, B. S. Patton, John B. Senecal, Oregon National Forest; Oscar Pratt, Wallowa National Forest; James Lowden, Washington National Forest; Geo. E. Stevenson, Wenaha National Forest; John S. Brender, Jas. E. Ewing, Hans T. Hansen, Rush J. Huston, Carl W. Ray, Wenatchee National Forest; George Donaldson and Thomas H. Parker, Whitman National Forest.

RESIGNED.

PRODUCTS.—Laboratory: Charles T. Leigh and Everett P. Peterson, assistant engineers in forest products.

APPALACHIAN.—William H. Hoover, agent.

DISTRICT 1.—Operation: Ora E. Yates, assistant forest ranger, Absaroka National Forest; Fremont N. Haines, forest supervisor, Blackfeet National Forest; James S. Garrison, Clearwater National Forest; Henry R. Snider, Coeur d'Alene National Forest; Fred E. Hughes and George F. Ranney, forest rangers, Deerlodge National Forest; Oline Graeter, forest clerk, Deerlodge National Forest; Horace A. Cleaveland, forest ranger, and Francis E. Baker, assistant forest ranger, Gallatin National Forest; Albert E. Cole, deputy forest ranger, and Chas. C. Thompson, assistant forest ranger, Helena National Forest; Joseph W. Butler, forest assistant, Madison National Forest; Will L. Vermillion, assistant forest ranger, Nezperce National Forest; Edw. C. Thenon, deputy forest supervisor, Selway National Forest.

DISTRICT 2.—Operation: Lillian E. Wesseler, clerk (stenographer and typewriter), district office; Thomas D. Lester, assistant forest ranger, Bighorn National Forest; Alfred A. Williams, assistant forest ranger, Stanley B. Hall, forest assistant, Gunnison National Forest; Mayme Yarger, clerk, Holy Cross National Forest; Charles H. Reily, clerk (stenographer and typewriter), Pike National Forest; Frank W. Pennock, assistant forest ranger, Medicine Bow National Forest; Frank L. Trickel, assistant forest ranger, Montezuma National Forest; Glenn K. Musell, assistant forest ranger, Rio Grande National Forest.

DISTRICT 3.—Operation: Edwin A. Haggard, assistant forest ranger, Carson National Forest; George Edmond Gillie, assistant forest ranger, Coconino National Forest; Clinton A. Hodges, assistant forest ranger, Datil National Forest; Howard Ferguson, clerk, Florida National Forest; Samuel A. Frey and Everett T. Holmes, assistant forest ranger, Gila National Forest; Edwin W. Kerr, clerk, Jemez National Forest.

DISTRICT 4.—Operation: John H. Clark, deputy forest supervisor, Kaibab National Forest; Edw. F. McCarthy, forest assistant, Caribou National Forest; forest rangers—John F. Squires, Cache National Forest; Riley Patten, Toiyabe National Forest; assistant forest rangers—Wallace Adair, Cache National Forest; Frank S. Brown, Kaibab National Forest; Charles E. Fleming, Palisade National Forest; Ross S. Tobias, Salmon National Forest; Ralph J. Wilcock, Sevier National Forest; Edwin T. Alvord, Targhee National Forest; Robert E. Marshall, Toiyabe National Forest; Nicholas S. Phelan, Weiser National Forest; John W. Davis, Wyoming National Forest.

DISTRICT 5.—Operation: Gilbert J. Spence, assistant forest ranger, Cleveland National Forest; Charles T. Shook, assistant forest ranger, Kern National Forest; George W. Perkins, assistant forest ranger, Modoc National Forest; Percy L. Day, forest supervisor, Monterey National Forest; Alfred G. De La Riva, assistant forest ranger, Santa Barbara National Forest; Margaret M. Farley, forest clerk, Sierra National Forest; Edwin N. Purvis, clerk (stenographer and typewriter), Sierra National Forest; Elsie C. Shoup, forest clerk, Trinity National Forest; Bert Lewis, deputy forest supervisor, Stanislaus National Forest.

District 6.—Operation: Mark E. Musgrave, forest ranger, Oregon National Forest; Elias T. Clark, forest assistant, Snoqualmie National Forest; Maria H. Roche, clerk (stenographer and typewriter), Umatilla National Forest; assistant forest rangers—Squire J. Santmyer, Chelan National Forest; Elias J. Wigal, assistant forest ranger, Columbia National Forest; C. K. Evarts, assistant forest ranger, Deschutes National Forest; Lawrence E. Manning, assistant forest ranger, Deschutes National Forest; Leo A. Blevins, assistant forest ranger, Minam National Forest; Jas. J. Walsh, assistant forest ranger, Okanogan National Forest; Edward G. Newman, assistant forest ranger, Olympic National Forest; Frederick R. Russell, assistant forest ranger, Siuslaw National Forest; Robert J. Watson, assistant forest ranger, Umpqua National Forest; John Keefe, jr., assistant forest ranger, Whitman National Forest.

APPOINTMENT TERMINATED.

Forester.—Editor: Treadwell Cleveland, jr., expert.

Products.—Laboratory: Louis Witt, assistant engineer in forest products.

District 1.—District office: Thos. L. Day, superintendent of telephone construction. Operation: James E. Forster, assistant forest ranger, Bitterroot National Forest.

District 2.—Operation: Sam S. Linscott, forest ranger, Arapaho National Forest. Silviculture: Edgar G. Polleys, forest assistant, Battlement National Forest; Philip L. Butterick, forest assistant, Black Hills National Forest; Devillo D. Wood, forest assistant, Routt National Forest.

District 4.—Operation: Geo. R. Martin, assistant forest ranger, Weiser National Forest; Ethel S. Cotter, forest clerk, Minidoka National Forest.

District 5.—Operation: Mathias Hugo, assistant forest ranger, Cleveland National Forest; John P. Yost, assistant forest ranger, Eldorado National Forest; Alice Chittenden, typewriter, Modoc National Forest; Clark C. Rice, assistant forest ranger, Sequoia National Forest; Gilbert J. Jackson, assistant forest ranger, Trinity National Forest; Ruth G. Trimble, clerk (stenographer and typewriter), Trinity National Forest. District office: Geo. T. Peekema, hydraulic engineer; Augusta W. Russell, clerk (stenographer and typewriter); Walter A. Greer, clerk; Lola Fowler, clerk (stenographer and typewriter).

District 6.—Operation: John A. Baker, assistant forest ranger, Cascade National Forest; Fred C. Bartholomew, assistant forest ranger, Umatilla National Forest; Frank E. McDonald, assistant forest ranger, Wenaha National Forest; Alfred J. Eggan, assistant forest ranger, Wenatchee National Forest; Thos. W. Greve, assistant forest ranger, Wenatchee National Forest; Charles Roescheisen, assistant forest ranger, Colville National Forest. Silviculture: Nellie M. Shears, clerk (stenographer and typewriter), district office. Lands: E. C. Hard, mineral examiner; Thos. M. Moorman, clerk (law); O. J. Culp, superintendent of telephone construction.

DISMISSED.

District 3.—Operation: Sam H. Pool, assistant forest ranger, Coconino National Forest.

With deep regret announcement is made of the death of Erle T. Very, forest clerk, Medicine Bow National Forest, on December 15, 1911.

SERVICE NOTES FOR JANUARY.

These notes contain instructions and necessary information for forest officers, and will therefore be carefully read and kept on file for reference.

OFFICE OF THE FORESTER.

PUBLICATION.

Field Program to Remain a Quarterly—

The question of a return to a monthly issue of the Field Program was under discussion in December. It was strongly urged from the districts that there is need for such a change. The Forester, however, after giving careful consideration to the matter in all its aspects, decided that such a change is not advisable at the present time.

LAW.

OFFICE OF THE SOLICITOR.

Condemnation of Lands for National Forests—

The Attorney General, in a letter dated December 2, 1911, addressed to the Secretary of Agriculture, stated as his opinion:

> To carry out the purposes of the Weeks forestry act, wherein you are given authority to procure by purchase certain lands, although no other method than purchase is mentioned, I believe that under the provisions of the act of August 1, 1888 (25 Stat. L., 357), you are authorized to procure by condemnation such lands as the commissioner by the aforesaid forestry act recommended for acquisition.

Refunds under Act of March 1, 1907 (34 Stat., 1256, 1270), as amended by Act of March 4, 1911 (36 Stat., 1235, 1253)—

In the decision, dated December 27, 1911, addressed to the Secretary of Agriculture, the Comptroller of the Treasury, referring to the above-mentioned act and its amendment, stated:

> 1. Reading the amendment in connection with the original provisions and bearing in mind the remedial purpose of the provision, I think the language sufficiently expresses an intent that the provisions of the amendment as well as the original act shall apply to all moneys received after July 1, 1907, and covered into the Treasury in accordance with the provisions of the original act.
>
> 2. Referring to a case (Longacre timber sale, district 3) where a contractor made a deposit to secure the purchase price of timber to be cut from National Forests under contract, but through circumstances for which the United States was not responsible failed to cut timber to the value of deposit or to the amount specified in contract, it was held "that the United States being in no wise responsible for the failure of the contractor to perform his agreement in accordance with its terms * * * the contract being fully executed by the United States and no extension having been granted, the right to damages, either actual or liquidated, became vested in the United States and could not be voluntarily waived or released by any officer or agent of the United States, and therefore refund of the amount of the deposit in excess of the value of timber cut is not authorized by the act."

3. Referring to a case in district 3, where an individual deposited funds in settlement for certain forest products cut in trespass on national forests and through error his attorney also deposited a like sum for the same purpose and both amounts were covered into the Treasury, it was held that the second deposit was "erroneously collected" and rightfully belonged to claimant, and that the Secretary of Agriculture is authorized to make the refund under the provision in the act relative to moneys "erroneously collected for the use of lands."

4. Referring to two cases in district 3, where deposits were made in compliance with departmental regulations relative thereto, to cover the cost of advertising timber sales, and in one of them the depositor died after advertising but before submitting bids for the timber, and in the other the depositor became financially unable to consummate the sale, it was held that the act authorized the refund of so much of the amounts deposited as is in excess of the amount of expense incurred by the United States by reason of the depositor's application to purchase.

Law Cases in District 1—

The Federal grand jury at Moscow, Idaho, November term, returned indictments against John E. Cleary, Wm. D. Nelson, and Arthur J. Kulp upon charges of perjury in violation of the provisions of the Penal Code of 1909, and the act of March 3, 1857 (11 Stat., 250). Cleary, Nelson, and Kulp filed affidavits in initiating their homestead entries upon lands now included within the Coeur d'Alene National Forest, in which affidavits they alleged, substantially, that they had settled upon these claims at a date prior to the withdrawal of lands as a National Forest and had continuously resided and made their homes upon their respective claims. The indictment charges that these allegations are false, inasmuch as the said defendants did not settle upon their respective claims at the dates alleged and did not maintain their residence thereon subsequently thereto, they having at all times during the said periods maintained their residence in the city of Spokane, Wash.

UNITED STATES *v.* O'HARE (CRIMINAL).—The Federal grand jury at Moscow, Idaho, November term, returned an indictment against one Frank O'Hare for failing to obey a subpœna issued and duly served for his appearance at a homestead hearing. O'Hare entered a plea of guilty at the Coeur d'Alene term of court and was fined $25.

These cases were presented to the grand jury under direction of the Commissioner of the General Land Office, the evidence having been procured and assistance rendered by the Forest Service.

UNITED STATES *v.* GREAT NORTHERN RAILROAD COMPANY, MAY 17, 1911.—Judgment for $480.75 and costs amounting to $12.40 was rendered by the Federal court at Helena, Mont., in a suit brought by the United States against the Great Northern Railroad Co., after the attorneys for the company had signified its willingness to confess judgment in such sum. The suit was based upon the negligence (starting of fires) by the defendant company on their right of way, which fires subsequently spread to the Blackfeet National Forest. This case is of more than passing interest, although it did not go to trial, in view of the fact that one of the items of damages was the destruction of a great number of immature trees, the value of which was estimated on the basis of their value at maturity discounted to date.

Law Cases in District 2—

The claim of the United States against the Chicago, Burlington & Quincy Railroad for fire trespasses in the Black Hills National Forest, S. Dak., during the season of 1910, caused by sparks from the locomotives operated by that company, in which

the damages and cost of fighting fires was estimated at $36,695, which included $17,900 for young growth, $5,059 for merchantable timber, and $13,736 for fighting fires, has, upon recommendation of the Secretary of Agriculture, been settled by the Treasury Department upon the payment of $25,000.

Law Cases in District 3—

Suits for the collection of civil damages were decided in favor of the Forest Service as follows:

Elihu Joy, grazing trespass upon Alamo National Forest, $528.45 actual damages, $322.70 costs of suit, permanent injunction; Sam B. Smith, grazing trespass upon Alamo National Forest, $48 actual damages and costs; Ed Burlinson, grazing trespass, Alamo National Forest, $31.50 actual damages, $81.60 costs, permanent injunction; W. W. Varner, grazing trespass Alamo National Forest, $47 actual damages, costs $29.85; J. W. Jones, grazing trespass upon Alamo National Forest, $145 damages and costs.

UNITED STATES *v.* J. W. VANWINKLE (CRIMINAL).—Indicted for willfully grazing stock upon National Forest reserves. On October 23, 1911, defendant entered a plea of guilty and was fined $100 and costs amounting to $35.20 and sentenced to three months in jail, the jail sentence being suspended during good behavior. In passing sentence in this case the court took occasion to remark upon the beneficence of the work done by the Forest Service and the necessity of the citizens complying fully with the law and the regulations governing National Forests, and stated in unmistakable language that the next violator of the law or the regulations brought before him for sentence on a criminal charge would not escape with such a light penalty.

Law Cases in District 4—

Cases reported to the Department of Justice were settled upon payments as follows:

Wadley Brothers, two suits grazing, trespass Wasatch National Forest, $70.43 actual damages, $75 punitive damages, $40 costs; Roy Hales, grazing trespass Pocatello National Forest, $31.50 actual damages, $25 punitive damages, $33.50 costs; John M. Pulsipher, grazing trespass upon Dixie National Forest, $62.33 actual damages, $25 punitive damages, and $48.50 costs.

Law Case in District 5—

Indictment was returned by the Federal grand jury at Fresno, Cal., against T. R. Cummings for willfully setting fire to timber and underbrush on the Sierra National Forest.

Law Cases in District 6—

The Federal grand jury on November 2, 1910, returned indictment against Taylor Bailey and Dol Moore for lighting a camp fire on public domain. On October 9, 1911, defendants were found guilty and fined $10 each and costs amounting to $45.

George Filisiano and J. P. Stevens, arrested July 29, 1911, for setting a fire in the Olympic National Forest and held under bond of $500 each, later indicted by the Federal grand jury, were tried September 29, 1911, and sentenced to serve three months in Kings County jail at Seattle, Wash.

UNITED STATES *v.* ADAMS DOWLING KING.—Indictment returned by Federal grand jury March 22, 1911. Defendants were tried October 9, 1911, found guilty and fined $10 each and costs amounting to $45.

UNITED STATES *v.* NORTHERN PACIFIC RAILROAD CO. (fire trespass)—Retrial of this case was held and resulted in a verdict for the Government of $4,000 and costs. The costs in the first and second trials amounted to approximately $800.

UNITED STATES *v.* HENRY ALLEN and S. E. WELL (fire trespass), in the Federal court, Seattle, Wash.—Defendants entered a plea of nolo contendere and were fined $100 and costs.

UNITED STATES *v.* CORVALLIS & EASTERN RAILROAD CO. (fire trespass).—Judgment for $4,428.38 rendered in the United States District Court for Oregon was affirmed by the United States Circuit Court of Appeals, San Francisco. Payment of damages with interest and costs amounting in all to $5,575.54 has been made.

OPERATION.

Changes in Boundaries and Areas—

Proclamations and Executive orders have been signed changing National Forest boundaries as follows:

In District 4 the proclamation signed December 8 eliminated 127,570 acres from and added 27,360 acres to the Moapa National Forest, Nev. The Executive order signed November 3 eliminated 1,400 acres from the Santa Rosa National Forest, Nev.

In District 6 the proclamations of October 23 transferred approximately 46,000 acres of land from the Rainier National Forest to the Snoqualmie National Forest. No eliminations were made in connection with either forest.

Purchase of Wire—

Considerable trouble has been caused by purchases of wire being made from other than the regular contractor or at other than contract prices. To avoid this in future, the district foresters have been instructed that all orders by supervisors and other forest officers for telephone wire should be forwarded through the office of the district fiscal agent, who will, if the purchase is properly payable from Forest Service funds, initial the order and transmit it immediately to the dealer or agent.

SILVICULTURE.

New Organization of Investigative Work—

The Central Investigative Committee, provided for in the Manual, was designated by the Forester on January 2. It consists of Raphael Zon, chairman, representing Silviculture, James T. Jardine, representing Grazing, and Howard Weiss, representing Products. District investigative committees will be appointed as soon as practicable. They will consist ordinarily of four men, three of whom are engaged in the major lines of investigation, silviculture, grazing, and products. The fourth will be a supervisor.

The creation of these committees marks a progressive step in the development of the investigative work of the Service. It is a recognition of the old principle that several heads are better than one, in perfecting plans which call for the best the Service has in scientific attainments and experience in research.

The investigative work of the Service has greatly broadened within the last three years. A large and well-equipped laboratory in forest products is now conducted at

Madison, Wis., with supplemental studies in the East and in three of the western districts.

Four experiment stations for the intensive study of silviculture have been established on National Forests. Aside from these stations an enormous amount of investigative work has been inaugurated, in reforesation, yield, results of various methods of cutting, and other fundamental aspects of silviculture. An office of grazing studies has been established. Its work, already begun in several districts, will be rapidly extended.

To get the best results all of these activities must be unified. Duplication must be avoided. Each investigative project must be undertaken by the unit, or the station, or the men best qualified to handle it. Where several men in different districts or branches of the Service should cooperate in a study, the part assigned to each must be carefully mapped out. Plans must be fully matured and checked, to make sure that the most important problems are attacked in the right way and that all of the available information and facilities of the Service are utilized.

The investigative committees are designed to assist in these ways. They are not to hamper or check the individual member of the Service, but to aid him by correlating his plans and efforts with those of all of the other members.

The publication of the "Review of Forest Investigations" from time to time will be an important factor to the same end. It will aim to keep all of the men engaged upon investigative work in touch with each other. It will give them the fresh results of each study as it develops. It will be primarily for the interest and benefit of all the investigators in the Service, in all lines of its work, as a cumulative medium for interchange of scientific data and ideas.

The new plan is but a step toward the accomplishment of one of the things which the Forester has most at heart, namely, the development of a staff of high-grade investigators in the Service whose scientific work shall compare favorably with the best of any other body of men in the country engaged upon research.

Bond from Persons Cutting Fire-Killed Timber on Unperfected Claims—

In a letter dated November 23 the Assistant Attorney General advised the Secretary of Agriculture that officers of the Forest Service will be justified in not interfering with any person or company cutting and removing fire-killed timber under arrangements with the claimant, from an unperfected claim, unidentified grant, or unapproved selection, situated within the exterior boundaries of a National Forest, if such person or company files with the proper officer of the United States a sufficient bond to secure the United States for the value of the timber to be cut and removed in the event such claim, grant, or selection is canceled, abandoned, or relinquished.

Sales of Fire-Killed Timber—

District 1.—The approval of the application of M. P. Bogle for 55 million feet of white pine on the St. Joe National Forest, on December 30, brought the total sales of timber killed by the fires of 1910 in district 1 up to approximately 340 million feet. The reconnaissance of all fire-killed areas has been actively pushed, and it is hoped that a considerable percentage of the accessible timber will be sold before it becomes unmerchantable.

GRAZING.

Change in Filing System for Grazing Applications and Permits—

The use of serial numbers in the designation of grazing applications and permits has been discontinued and the date of application adopted in its place. This will simplify the filing system and make it uniform, as grazing applications and permits will be filed alphabetically the same as other kinds of uses instead of numerically. Full instructions have been issued for the immediate adoption of this plan. A new record card, Form 621, has also been adopted, which is larger than the old card and provides for a record covering a period of 10 years. This will greatly reduce the clerical work and enable the forest officers to keep better track of the grazing business.

LANDS.

Captions in Interior Right-of-Way Cases—

Hereafter all captions in special-use letters in Interior easement cases will omit the word "(Interior)" and substitute in lieu thereof the name of the local land office and the Land Office serial number, as illustrated by the following example:

L, Blackfeet, Uses.
Brown and Smith,
Reservoir and Conduit,
(Rapid City 027) 12/23/11.

SERVICE PUBLICATIONS ISSUED.

Bulletin 98. Reforestation on the National Forests.
Bulletin 99. Uses of Commercial Woods of the United States: II. Pines.
Bulletin 100. Crater National Forest: Its Resources and Their Conservation.
Bulletin 101. Western Yellow Pine in Arizona and New Mexico.
Bulletin 102. The Identification of Important North American Oak Woods.
Bulletin 103. The Distinguishing Characteristics of North American Gumwoods.
Circular 23. Suggestions to Prospective Forest Students (Fifth Revision).
Circular 173. Avalanches and Forest Cover in the Northern Cascades.
Circular 187. Manufacture and Utilization of Hickory, 1911.
Circular 188. Volatilization of Various Fractions of Creosote after their Injection into Wood.
Circular 190. A Visual Method for Determining the Penetration of Inorganic Salts in Treated Wood.
Circular 191. Modification of the Sulphonation Test for Creosote.
Circular 192. The Prevention of Sap Stain in Lumber.
Circular 196. The influence of Age and Condition of the Tree upon Seed Production in Western Yellow Pine
Unnumbered Circular. Tree Distribution under the Kinkaid Act, 1911.
National Forest Manual—Claims, Settlement, Administrative Sites.
National Forest Manual—Forest Plans, Forest Extension, Forest Investigations, Libraries, Cooperation, Dendrology.
National Forest Manual—Timber Sales, Administrative Use, Timber Settlement, Free Use.
Report of the Forester, 1911.

CUMULATIVE INDEX TO SERVICE NOTES AND ORDERS.

(JULY, 1910–OCTOBER, 1911.)

[Numbers in parentheses after the month indicate page.]

Act of June 11, 1906, application, conflict of mining claim with; October, 1910 (67).
Addresses, report of; July, 1911 (25).
Administrative sites, claims, and settlement; October, 1911 (61).
Atlas folios, correcting; October, 1910 (64).
requests for binding; October, 1910 (64).
legend crayons; October, 1911 (59).
Boundaries and areas, changes in; July, 1910 (33); October, 1910 (64); January (95).
Business relations, and rules concerning; April (129).
Carbons sent for information, omission of initialing on; October, 1910 (64).
Chaparral, California, regarding nomenclature of; October, 1910 (61).
Claims agreement, revised cooperative; January (100).
cases, procedure in the conduct of; July, 1910 (35); October, 1910 (66).
conflict of mining, with a June 11, 1906, application; October, 1910 (67).
indorsement upon final-proof notices; April (132).
instructions under cooperative agreement of November 25, 1910; January (97).
relinquishment of; October, 1910 (67).
settlement, and administrative sites; October, 1911 (61).
squatter, procedure in; April (132).
Code, dates becoming effective; July, 1911 (25).
Constitutionality of national forest organic and administrative acts; July, 1911 (31, 32).
Conviction and sentence of Frank Kirri; July, 1911 (26).
Correspondence on insects, diseases, and protection from animals; April (130).
Correspondence with other bureaus; January (102).
Damages assessed against grazing trespass; April (128).
for destruction of young growth awarded; October, 1910 (61).
measure of, in innocent timber trespass case; October, 1910 (62).
Dendrological specimens, full data with; October, 1910 (61).
Diagrams and maps; October, 1911 (59).
Easements and special uses; April (135).
Employees killed or injured in forest fires; January (96).
Examination of forest homestead applications; July, 1910 (38).
Express shipments, directions for; April (128).
Field Program to be published quarterly; July, 1910 (32).
Final-proof notices and requests; January (99).
disposition of; October, 1910 (68).
indorsement upon; April (132).
modification in indorsement of; January (99).
Fire trespass. (*See* Trespass, fire.)

Fires, forest, employees killed or injured in; January (96).
Forage plants, identification of grasses and; July, 1910 (35).
Form 2, revised, to supplant Form 143; July, 1910 (33).
143, supplanted by Form 2, revised; July, 1910 (33).
321, discontinued; July, 1910 (34).
321a, originated; July, 1910 (34).
322, revised; July, 1910 (34).
323, revised; July, 1910 (34).
631, discontinuance of; July, 1911 (34).
861 and 861–G, revised; July, 1910 (32).
979, requisitions for; July, 1910 (34).
Fountain pens at Ogden; October, 1910 (63).
General Order 140 of Secretary of Agriculture; July, 1910 (32).
Grasses and forage plants, identification of; July, 1910 (35).
Grazing permits and trespass period; April (131).
Grazing trespass. (*See* Trespass, grazing.)
Grimaud et al., case of; July, 1911 (31, 32).
Habeas corpus, Joseph J. Jones and Clinton A. Hodges released on writ of; July, 1911 (29).
Homestead applications, examination of forest; July, 1910 (38).
Horse feed, maximum sum for; January (96).
Identification of grasses and forage plants; July, 1910 (35).
Illegal occupants, judgment of ouster against; April (128).
Inclosures: Occupancy; July, 1911 (34).
Indian allotments; April (136).
Initialing, omission of, on carbons sent for information; October, 1910 (64).
Injunction against Telluride Power Co., application for; January (93).
Insect infestation, letters on; July, 1910 (34).
Insects, correspondence on; April (130).
Lands, application to list; April (133).
effect of eliminations upon listed; October, 1910 (68).
reconveyed to United States under lieu selection; January (102).
relative preference rights to listed; January (96).
valuable for coal; April (135).
within abandoned military reservations; April (134).
Larceny, case of H. C. Herrington; July, 1911 (30).
A. M. Neal et al.; July, 1911 (29).
J. P. Tuley (Harrison); July, 1911 (27).
Paul Wiedenbohm and Henry Gieschen; July, 1911 (26).
Law cases in district 1: October, 1910 (62); January, 1911 (92); July, 1911 (29); October, 1911 (56).
2: October, 1910 (61, 62, 63); January, 1911 (92, 93); July, 1911 (27, 28, 31).
3: October, 1911 (56).
4: October, 1910 (63); July, 1911 (25, 26); October, 1911 (56).
6: July, 1910 (32); January, 1911 (93); April, 1911 (128); October, 1911 (57).

Letters, papers to accompany drafts of list; October, 1910 (68).
Secretary, recommending eliminations and release; October, 1911 (58).
Level rod; October, 1911 (58).
Library, to increase the usefulness of; April (131).
Lieu selection, lands reconveyed to United States under; January (102).
Light, Fred, case of; July, 1911 (31, 32).
Loose-leaf covers; October, 1911 (59).
Manual, error in; July, 1911 (34).
Maps and surveys; April (129).
diagrams; October, 1911 (59).
Meals and lodging; July, 1911 (33).
Mining claim, conflict of, with a June 11, 1906, application; October, 1910 (67).
saloon location on; January (92).
National Forest Code, dates becoming effective; July, 1911 (25).
National Forests, changes in boundaries and areas of; July, 1910 (33); October, 1910 (64); January (95).
Northern Pacific Ry. Co., verdict against; April (128).
Nursery reports; April (131).
Paper scales, Forest Service; October, 1911 (58).
Papers to accompany drafts of list letters; October, 1910 (68).
Pay-roll forms, revision of; July, 1910 (33).
Permits, water-power; January (96).
Personal conduct, rules concerning; April (129).
Photographic notebook, new; October, 1911 (58).
Political activity and political assessments or contributions; January (93).
rules concerning; April (129).
Preference rights to listed lands; January (96).
Preparation of papers, care in; July, 1910 (34).
Proclamations and diagrams, distribution of; October, 1910 (65).
supplies of; October, 1910 (65).
where made; October, 1911 (58).
Procedure, changes in; July, 1911 (33, 34).
Ranch property purchased with stock; July, 1911 (34).
Reconnaissance forms; July, 1910 (34).
Refunds in supposed timber-trespass cases; October, 1910 (62).
Reimbursement for maintenance of horse or motor; October, 1911 (57).
Requisitions for Form 979; July, 1910 (34).
Reward, notice of; October, 1910 (69).
Rights of way stipulations; April (135).
Roads, excepting strip of land for; April (133, 134).
Saloon location, mining claim does not permit; October, 1910 (62).
on mining claim; January (92).
School sections, authority to sell timber from unsurveyed; January (92).
Settlement, application to list land; April (133).
claims, and administrative sites; October, 1911 (61).
closing cases in supervisors' offices; April (135).
effect of elimination upon lands listed; October, 1910 (68).

Settlement, exceptions for roads; April (133).
notice to applicant: April (134).
lands valuable for coal; April (135.)
within abandoned military reservations; April (134).
Settlers on restored areas; July, 1910 (38).
Signs, making and posting of; October, 1910 (63).
Solicitor, duties of, in connection with Forest Service; July, 1910 (32).
Special uses and easements; April (135).
Stadia pattern; October, 1911 (58).
State law violation, fined for; October, 1911 (57).
Stations, statement as to power value; April (135).
withdrawal under the act of June 25, 1910; April (135).
Surveys and maps; April (129).
Timber, authority to sell from unsurveyed school sections; January (92).
sale; United States intervener; January (93).
trespass. (*See* Trespass, timber.)
Transportation requests; July, 1910 (33).
Trespass cases, fire, district 1; October, 1911 (56).
district 2; October, 1910 (62); January (93).
by the C., B. & Q. R. R.; January (93).
district 3: July, 1911 (30).
district 4: October, 1911 (56).
district 6: January (93); July, 1911 (26,27); October, 1911 (57).
grazing, district 2: October, 1910 (63); January (92); July, 1911 (27, 28).
district 3: July, 1911 (29,30,31); October, 1911 (57).
district 4: October, 1910 (63); July, 1911 (25,26).
district 6: July, 1910 (32); April (128); July, 1911 (27).
constitutionality of national forests organic and administrative acts; July, 1911 (31,32); October, 1911 (56,57).
timber, district 1: July, 1911 (28,29).
district 2: January (92); July, 1911 (28).
district 3: July, 1911 (30).
measure of damage in innocent; October, 1910 (62).
refunds in supposed; October, 1910 (62).
U. S. *v.* Stack-Gibbs Lumber Co. and Shoshone Lumber Co.; October, 1911 (56).
regulations approved; October, 1911 (61).
Uniform, Forest Service, January (96).
Ware for camp use, tin or granite; October, 1910 (63).
Water power, amendment of regulations L–4; July, 1911 (35).
permits; January (96).
right to use at administrative site; July, 1911 (27).

○

Mulford

Issued April 15, 1912.

UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.

HENRY. S. GRAVES, Forester.

April Field Program, 1912.

This program of field work and assignments in the Forest Service is issued quarterly on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

OFFICE OF THE FORESTER.

HENRY S. GRAVES, Forester.
ALBERT F. POTTER, Associate Forester.

HERBERT A. SMITH, editor.
FINDLEY BURNS, in charge of technical review.
Assistants in editor's office: BRISTOW ADAMS, DON CARLOS ELLIS, E. R. JACKSON, C. M. BALLARD.
GEORGE B. SUDWORTH, dendrologist; C. D. MELL, assistant dendrologist.
Wood structure studies, W. D. BRUSH, ARTHUR KOEHLER.
Forest distribution studies, W. H. LAMB, G. E. WHARTON.
EUGENE S. BRUCE, expert lumberman.
D. D. BRONSON, general inspector.

ACCOUNTS.

Division of Accounts and Disbursements (Forest Service Branch).
M. E. FAGAN, chief of office of accounts; E. A. MELZAR, assistant chief.

OPERATION.

JAMES B. ADAMS, assistant forester, in charge; FRANKLIN W. REED, forest inspector; GEORGE G. ANDERSON, administrative assistant.

GEOGRAPHY.—FRED G. PLUMMER, chief.

ATLAS.—G. B. BRUCE.

DRAFTING.—C. A. KOLB.

PHOTOGRAPHY.—E. S. SHIPP.

MAINTENANCE.—GEORGE A. BENTLEY, chief.

SILVICULTURE.

W. B. GREELEY, assistant forester, in charge; EARLE H. CLAPP, forest inspector; FRANKLIN H. SMITH, statistician in forest products, special detail.

STATE COOPERATION.—J. G. PETERS, chief.

Collaborators, State cooperative fire protection under the Weeks law.—Frank E. Mace, land agent and forest commissioner, Augusta, Me.; E. C. Hirst, State forester, Concord, N. H.; A. F. Hawes, State forester, Burlington, Vt.; F. W. Rane, State forester, Boston, Mass.; S. N. Spring, State forester, New Haven, Conn.; C. R. Pettis, superintendent of forests, Albany, N. Y.; C. P. Wilber, State fire warden, Trenton, N. J.; F. W. Besley, State forester, Baltimore, Md.; E. M. Griffith, State forester, Madison, Wis.; Wm. T. Cox, State forester, St. Paul, Minn.; F. A. Elliott, State forester, Salem, Oreg.

State reports.—J. H. Foster and L. S. Murphy.

SILVICS.—RAPHAEL ZON, chief; S. T. DANA, assistant chief.

Studies, E. H. Frothingham, W. D. Sterrett, C. R. Tillotson, G. N. Lamb, Barrington Moore, Benton MacKaye.

COMPUTING.—W. B. BARROWS.

LIBRARY.—MISS H. E. STOCKBRIDGE.

FOREST MANAGEMENT IN THE EAST.—A. W. WILLIAMSON, acting in charge.

GRAZING.

A. F. POTTER, associate forester, in charge; L. F. KNEIPP, assistant forester; WILL C. BARNES, inspector of grazing.

Grazing studies (in cooperation with F. V. Coville, botanist, Bureau of Plant Industry).—James T. Jardine, inspector of grazing, in charge, Ogden, Utah.

Forage investigations.—Arthur T. Sampson, Washington, D. C., and William A. Dayton, Sisson, Cal., plant ecologists.

Range reconnaissance.—Charles E. Fleming, Wallowa, Oreg., Lynn H. Douglas, Laramie, Wyo., Robert R. Hill, Flagstaff, Ariz., Alfred E. Aldous, Ogden, Utah.

LANDS.

JAMES B. ADAMS, assistant forester, in charge; O. C. MERRILL, chief engineer; F. H. FOWLER, engineer.

OCCUPANCY.—CHARLES H. SQUIRE, in charge.

CLAIMS.—J. I. PARKER, in charge.

PRODUCTS.

McGARVEY CLINE, in charge, Madison, Wis.

FOREST PRODUCTS LABORATORY (in cooperation with the University of Wisconsin, Madison, Wis.).—McGarvey Cline, director; Howard F. Weiss, assistant director.

Cooperation.—Carlisle P. Winslow.

Design of laboratory equipment.—Rolf Thelen.

Review of results.—Wm. H. Kempfer, H. S. Betts.

Chemistry and Distillation.—L. F. Hawley, in charge; E. Bateman, A. W. Schorger, F. W. Kressman, R. C. Palmer, Jacob M. Joblin, jr.

Engineering.—A. L. Heim, in charge; Frank J. Hallauer, James O. Bixby, O. M. Sutherland.

Maintenance. ———

Pulp and Paper.—H. E. Surface, in charge; Robert E. Cooper, Sidney D. Wells, Charles S. Gwinn.

Timber Physics.—H. D. Tiemann, in charge; Frederick Dunlap, Eloise Gerry, Ollison Craig, C. T. Barnum, M. E. Diemer.

Timber Tests.—John A. Newlin, in charge; Thomas R. C. Wilson, Harold Winter.

Wood Preservation.—Francis M. Bond, in charge; E. W. Peters, Clyde H. Teesdale, James D. MacLean.

Ground-Wood-Pulp Laboratory, Wausau, Wis.—John H. Thickens, in charge; Sidney E. Lunak, C. N. McNaughton.

Pathology (in cooperation with the Bureau of Plant Industry).—C. J. Humphrey, in charge: M. C. Jensen.

WOOD UTILIZATION.—H. S. Sackett, in charge, Fisher Building, Chicago, Ill.

Studies, Hu Maxwell, John T. Harris, Clark W. Gould, Chicago, Ill.

WASHINGTON OFFICE.—O. T. Swan, in charge; A. H. Pierson, R. E. Simmons, Jesse C. Nellis.

ACQUISITION OF LAND UNDER THE WEEKS LAW.

WM. L. HALL, assistant forester, in charge, Washington, D. C.

Lumbermen's Examinations.—D. W. Adams and W. W. Ashe.

Examination of Lands.—K. W. Woodward, in charge, Washington, D. C.; White Mountain area, E. D. Fletcher, in charge; Massanutten, Potomac, and Youghiogheny areas, E. D. Clark, forest assistant, in charge; Natural Bridge area, S. H. Thompson, forest assistant, in charge; White Top area, C. Macfarlane, forest assistant, in charge; Unaka and Yadkin areas, V. Rhoades, forest examiner, in charge; Nantahala area, O. D. Ingall, forest assistant, in charge; Savannah area, R. C. Hall, forest assistant, in charge; R. W. Shields, C. E. Beaumont, forest assistants; Shenandoah area, S. H. Marsh, forest assistant, in charge, H. L. Russell, forest assistant; Monongahela area, W. A. Hopson, forest assistant, in charge.

Survey of Lands.—R. Dieffenbach, forest examiner, acting in charge; White Top area, J. H. Fahrenbach, forest assistant, in charge; Mount Mitchell area, D. M.

Gibson, examiner of surveys, in charge; Nantahala area, J. L. Pritchard, forest examiner, in charge; Georgia area, E. V. Clark, forest examiner, in charge.

LAW.—Office of the Solicitor (Forest Service branch). A. S. LANIER, assistant to the solicitor, American Bank Building, Richmond, Va.

Record examiners: Geo. H. Wright, Asheville, N. C.; M. B. Stickley, Franklin, N. C.; Geo. E. Taylor, Bristol, Tenn.; Cameron F. MacRae, unassigned.

DISTRICT 1.

Montana, northeastern Washington, northern Idaho, northwestern South Dakota, northern Michigan, northern Minnesota, and southwestern North Dakota. Office, Hammond Block, Missoula, Mont.

F. A. SILCOX, district forester; E. W. KRAMER, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). W. C. HENDERSON, assistant to the solicitor, in charge; HAROLD H. CLARKE, assistant to the solicitor.

ACCOUNTS.—JOHN A. URBANOWICZ, district fiscal agent.

MAINTENANCE.—R. J. MOORE.

OPERATION.—J. F. PRESTON, assistant district forester.

SILVICULTURE.—R. Y. STUART, assistant district forester; D. T. MASON, assistant district forester.

PLANTING.—H. H. FARQUHAR; HOWARD A. GREEN, forest assistant.

SILVICS.—F. I. ROCKWELL.

Studies, C. N. Whitney, Anaconda, Mont.

Josef Brunner, field agent, Bureau of Entomology, Columbia Falls, Mont.

James R. Weir, consulting pathologist, Missoula, Mont.

GRAZING.—C. H. ADAMS, assistant district forester.

LANDS.—R. H. RUTLEDGE, assistant district forester; JOHN D. JONES, assistant.

EXPERIMENT STATION.

Priest River.—DONALD R. BREWSTER, Priest River, Idaho.

NATIONAL FORESTS.

IDAHO.

Clearwater.—CHARLES A. FISHER, forest supervisor, Orofino (WU-Am); Alfred B. Hastings, forest assistant.

Coeur d'Alene.—ROSCOE HAINES, acting forest supervisor, Coeur d'Alene (WU-Am); W. W. Morris and Donald R. Bruce, forest assistants.

Kaniksu.—See Washington.

Nezperce.—GEORGE V. RING, forest supervisor, Grangeville (WU-Am); J. Arthur Brown, deputy forest supervisor.

Pend Oreille.—J. E. BARTON, forest supervisor, Sandpoint (WU-Am, N, W); Charles F. Howell, deputy forest supervisor; James R. Gillis, forest assistant.

Selway.—FRANK A. FENN, forest supervisor, Kooskia (WU-N).

St. Joe.—THOMAS C. SPAULDING, forest supervisor, St. Maries (Continental-WF); Edward A. Holcomb, deputy forest supervisor; Wilford B. Willey, John E. Keach, and Richard C. Eggleston, forest assistants; C. H. Gregory, lumberman; E. B. Tanner, scaler.

MICHIGAN.

Marquette. Michigan.—W. B. PIPER, acting forest supervisor, East Tawas (WU-Am).

MINNESOTA.

Minnesota.—G. E. MARSHALL, forest supervisor, Cass Lake (WU-Am, GN); J. St. J. Benedict, forest assistant.

Superior.—J. A. FITZWATER, forest supervisor, Ely (WU-GN).

MONTANA.

Absaroka.—JOSEPH D. WARNER, forest supervisor, Livingston (WU-Am, N); Warren F. Hale, forest assistant.

Beartooth.—GLEN A. SMITH, forest supervisor, Billings (WU-Am, N); Arthur H. Abbott, deputy forest supervisor; James C. Whitham, forest assistant.

Beaverhead.—C. K. WYMAN, forest supervisor, Dillon (WU-Am); George E. Martin, deputy forest supervisor; Charles R. Clark, forest assistant.

Bitterroot.—W. W. WHITE, forest supervisor, Missoula (WU-Am, N); M. N. Stickney, deputy forest supervisor; Abbott B. Silva, forest assistant.

Blackfeet.—R. P. MCLAUGHLIN, forest supervisor, Kalispell (WU-Am, GN); David D. Johnson, deputy forest supervisor; J. A. Larsen, forest assistant.

Cabinet.—RALPH H. BUSHNELL, forest supervisor, Thompson Falls (WU-Am, N); Claude W. Griffin, deputy forest supervisor.

Custer.—KNOX MCANALLY, forest supervisor, Miles City (WU-Am, N); Edgar F. White, forest assistant.

Deerlodge.—LEWIS C. STOCKDALE, acting forest supervisor, Anaconda (P-Am, N); C. N. Whitney and John F. Forsythe, forest assistants.

Flathead.—PAGE S. BUNKER, forest supervisor, Kalispell (WU-Am, GN); John H. Clack, deputy forest supervisor; J. L. Cobbs, forest assistant.

Gallatin.—D. T. CONKLING, forest supervisor, Bozeman (WU-Am, N); Samuel R. Hays, deputy forest supervisor.

Helena.—J. B. SEELY, forest supervisor, Helena (WU-Am, N); Lewis T. Morgan, deputy forest supervisor; Waldo D. Barlow, forest assistant.

Jefferson.—WALLACE S. PERRINE, forest supervisor, Great Falls (WU-Am, N); Wellman Holbrook, deputy forest supervisor.

Kootenai.—DORR SKEELS, forest supervisor, Libby (WU-Am, GN); William A. Raymond, deputy forest supervisor; Webster H. Ransom and William C. Latane, forest assistants.

Lewis and Clark.—SCOTT LEAVITT, forest supervisor, Chouteau (WU via Collins-Am, GN via Collins); A. A. Saunders, forest assistant.

Lolo.—ELERS KOCH, forest supervisor, Missoula (WU, P-Am, N); Reuben P. Prichard, forest assistant.

Madison.—CLIFTON W. HUDSON, forest supervisor, Sheridan (WU-Am, N); E. C. Clifford, deputy forest supervisor.

Missoula.—RUTLEDGE PARKER, acting forest supervisor, Missoula (WU, P-Am, N); Frederick R. Mason, forest assistant.

Sioux.—See South Dakota.

NORTH DAKOTA.

Dakota.—C. A. BALLINGER, forest supervisor, Camp Crook, S. Dak. (WU via Bellefourche-Am via Bellefourche); Kenneth D. Swan, forest assistant.

SOUTH DAKOTA.

Sioux.—C. A. BALLINGER, forest supervisor, Camp Crook (WU via Bellefourche-Am via Bellefourche); Kenneth D. Swan, forest assistant.

WASHINGTON.

Kaniksu.—MEYER H. WOLFF, acting forest supervisor, Newport (WU-Am, GN); Arnold O. Benson and John C. DeCamp, forest assistants.

DISTRICT 2.

Colorado, Wyoming, South Dakota, Nebraska, and western Kansas. Office, Majestic Building, Denver, Colo.

SMITH RILEY, district forester; T. W. NORCROSS, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). GEORGE E. TROWBRIDGE, assistant to the solicitor, in charge; J. F. LAWSON, assistant to the solicitor.

ACCOUNTS.—H. I. LOVING, district fiscal agent.

OPERATION.—FRED W. MORRELL, assistant district forester.

MAINTENANCE.—F. H. CARROLL.

SILVICULTURE.—S. L. MOORE, assistant district forester.

PLANTING.—SEWARD D. SMITH.

SILVICS.—C. G. BATES.

Studies, Colorado and Wyoming, J. H. Potts, Denver, Colo.

Carl Hartley, consulting pathologist, Washington, D. C.

GRAZING.—J. W. NELSON, assistant district forester.

LANDS.—C. J. STAHL, assistant district forester; R. D. Wyatt, assistant.

EXPERIMENT STATIONS.

Fremont.—F. B. NOTESTEIN, Manitou, Colo.; W. D. Hays, assistant.

Wagon Wheel Gap.—PETER KEPLINGER, Wagon Wheel Gap, Colo., and B. C. Kadel of the Weather Bureau.

NATIONAL FORESTS.

COLORADO.

Arapaho.—ARTHUR M. COOK, forest supervisor, Fraser (WU-Ad); Alva A. Simpson, deputy forest supervisor; Arthur T. Upson and Huber C. Hilton, forest assistants.

Battlement.—JOHN W. LOWELL, Jr., forest supervisor, Collbran (WU-WF, G); George Z. Mason, forest assistant.

Cochetopa.—EUGENE WILLIAMS, forest supervisor, Saguache (WU-G); Charles P. Bliss, forest assistant.

Colorado.—H. A. E. MARSHALL, forest supervisor, Fort Collins (WU-WF); Harold C. Clark, forest assistant.

Durango.—ERNEST W. SHAW, forest supervisor, Durango (WU-G); E. S. Keithley, forest assistant.

Gunnison.—WILLIAM R. KREUTZER, forest supervisor, Gunnison (WU-WF, G); E. C. Berky, deputy forest supervisor; W. H. Mast, forest assistant.

Hayden.—See Wyoming.

Holy Cross.—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU-WF, G); Albert H. Miller, deputy forest supervisor; George R. Morrison, forest assistant.

La Sal.—See Utah, District 4.

Leadville.—THEODORE SHOEMAKER, forest supervisor, Leadville (WU, P-WF, G); R. E. Clark, deputy forest supervisor; J. E. Martin, forest assistant.

Montezuma.—RESS PHILLIPS, forest supervisor, Mancos (WU-G); Gordon Parker, forest assistant.

Pike.—C. W. FITZGERALD, forest supervisor, Denver (WU, P-Ad, Am, G. US, WF); George A. Duthie, deputy forest supervisor; W. I. Hutchinson, forest assistant; Monument Nursery, Henry G. Reinsch, forest expert; W. Schrader, forest-planting assistant, Monument.

Rio Grande.—A. L. SWEITZER, forest supervisor, Monte Vista (WU-G); Walter F. Bowers, deputy supervisor; Jay Higgins, forest assistant.

Routt.—J. H. RATLIFF, forest supervisor, Steamboat Springs (WU-Ad); Ray Peck, deputy forest supervisor; P. J. Paxton, forest assistant.

San Isabel.—J. N. LANGWORTHY, forest supervisor, Westcliffe (WU-G); M. B. Willey, deputy forest supervisor; Albin G. Hamel, forest assistant.

San Juan.—G. P. BARD, forest supervisor, Pagosa Springs (WU-G); A. F. C. Hoffman, forest assistant.

Sopris.—JOHN MCLAREN, forest supervisor, Aspen (WU-WF, G); W. G. Baxter, forest assistant.

Uncompahgre.—HOWARD S. BUSHNELL, forest supervisor, Delta (WU-G); L. E. Cooper, deputy forest supervisor; J. H. Ramskill, forest assistant.

White River.—JAMES A. BLAIR, forest supervisor, Meeker (WU-WF, G); Crosby A. Hoar, forest assistant.

KANSAS.

Kansas.—B. R. H. D'ALLEMAND, forest supervisor, Garden City (WU, P-WF); Garden City Nursery.

NEBRASKA.

Nebraska.—R. G. PIERCE, acting forest supervisor, Halsey (WU-Ad); Fred R. Johnson, forest assistant; Halsey Nursery.

SOUTH DAKOTA.

Black Hills.—PAUL D. KELLETER, forest supervisor, Deadwood (WU-Ad, Am); William Wiehe, deputy forest supervisor; Percy T. Smith, forest assistant.

Harney.—R. P. IMES, forest supervisor, Custer (WU-Ad); Stephen V. Klem, forest assistant.

WYOMING.

Bighorn.—E. N. KAVANAGH, forest supervisor, Sheridan (WU-Ad); Andrew G. Stockwell, deputy forest supervisor; Earl S. Pierce, forest assistant.

Bonneville.—H. EARL FRENCH, forest supervisor, Dubois (WU-Am).

Bridger.—H. C. HALL, forest supervisor, Pinedale (WU-Am).

Hayden.—JAMES BLACKHALL, forest supervisor, Encampment (WU, P-Am); Roy S. Wheeler, forest assistant.

Medicine Bow.—C. M. GRANGER, forest supervisor, Laramie (WU, P-Am); R. A. Stretch, deputy forest supervisor; D. S. Jeffers, forest assistant.

Shoshone.—R. W. ALLEN, forest supervisor, Cody (WU-Ad); Fred B. Agee, deputy forest supervisor; Myron W. Thompson, forest assistant.

Sundance.—LOUIS KNOWLES, forest supervisor, Sundance (WU-Ad, Am).

Washakie.—C. G. POOLE, forest supervisor, Lander (WU-Am).

DISTRICT 3.

Arizona, Arkansas, Florida, New Mexico, and Oklahoma. Office, Strickler-Luna Building, Albuquerque, N. Mex.

A. C. RINGLAND, district forester; T. W. NORCROSS, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). D. F. MCGOWAN, assistant to the solicitor, in charge; J. O. SETH, assistant to the solicitor.

ACCOUNTS.—J. J. DUFFY, district fiscal agent.

OPERATION.—A. O. WAHA, assistant district forester; A. S. Peck, assistant district forester.

SILVICULTURE.—R. L. ROGERS, forest examiner; ATHOL A. WYNNE, lumberman; G. A. PEARSON, in charge forest investigations; JOHN H. ALLISON, in charge reconnaissance.

GRAZING.—JOHN KERR, assistant district forester.

LANDS.—FRANK C. POOLER, assistant district forester.

EXPERIMENT STATION.

Fort Valley.—G. A. PEARSON, Flagstaff, Ariz.

NATIONAL FORESTS.

ARIZONA.

Apache.—JOHN D. GUTHRIE, forest supervisor, Springerville (WU, P-WF); Frederick Winn, deputy forest supervisor; Clifford W. McKibbin, forest assistant.

Chiricahua.—A. H. ZACHAU, forest supervisor, Portal (WU, P-WF); Frank J. Mosher, forest assistant; R. R. Moak, reconnaissance.

Coconino.—WILLARD M. DRAKE, forest supervisor, Flagstaff (WU, P-WF); J. C. Kircher, deputy forest supervisor; Quincy Randles, forest assistant.

Coronado.—ROBERT J. SELKIRK, forest supervisor, Tucson (WU, P-WF).

Crook.—T. T. SWIFT, forest supervisor, Safford (WU-WF).

Prescott.—C. H. HINDERER, forest supervisor, Prescott (WU-WF); J. C. McNelty, deputy forest supervisor.

Sitgreaves.—CHAS. H. JENNINGS, acting forest supervisor, Snowflake (WU, P-WF); Thomas B. Longwell, reconnaissance.

Tonto.—R. G. WILLSON, forest supervisor, Roosevelt (WU-WF).

Tusayan.—STANTON G. SMITH, forest supervisor, Williams (WU, P-WF); Harold Greene, deputy forest supervisor; Gordon T. Backus, forest assistant.

Zuni.—See New Mexico.

ARKANSAS.

Arkansas.—S. A. CHAPPELL, forest supervisor, Hot Springs (WU, P-WF, P); C. J. Heller, forest assistant; Raymond E. Marsh, forest assistant, reconnaissance.

Ozark.—FRANCIS KIEFER, forest supervisor, Harrison (WU-WF); Ralph C. Huey, deputy forest supervisor; L. L. Janes, forest assistant.

FLORIDA.

Florida.—I. F. ELDREDGE, forest supervisor, Pensacola; W. F. Hill, deputy forest supervisor; John W. Spencer, forest assistant.

NEW MEXICO.

Alamo.—R. F. BALTHIS, forest supervisor, Cloudcroft (WU, P-WF); Thomas E. McCullough, forest assistant.

Carson.—ALDO LEOPOLD, acting forest supervisor, Tres Piedras (WU-G); Ira T. Yarnall, forest assistant.

Chiricahua.—See Arizona.

Datil.—W. H. GODDARD, forest supervisor, Magdalena (WU, P-WF); Robert L. Deering, deputy forest supervisor; H. Basil Wales, forest assistant.

Gila.—DON P. JOHNSTON, forest supervisor, Silver City (WU, P-WF); Ausburn H. Douglas, deputy forest supervisor; Herman Krauch, forest assistant; Chas. H. Kissam, forest agent; P. P. Pitchlynn, reconnaissance; Fort Bayard Nursery, H. C. Turner, forest planting assistant.

Jemez.—FRANK E. ANDREWS, forest supervisor, Santa Fe (WU, P-WF); B. M. Thomas, deputy forest supervisor.

Lincoln.—J. A. KINNEY, forest supervisor, Capitan (WU, P-WF).

Manzano.—HUGH G. CALKINS, forest supervisor, Albuquerque (WU, P-WF); James F. Mullen, deputy forest supervisor.

Pecos.—THOS. R. STEWART, forest supervisor, Santa Fe (WU, P-WF); Las Gallinas Nursery, H. D. Burrall, forest planting assistant.

Zuni.—HUGH G. CALKINS, forest supervisor, Albuquerque (WU, P-WF); James F. Mullen, deputy forest supervisor.

OKLAHOMA.

Wichita.—FRANK RUSH, game warden, in charge, Cache (WU-WF).

DISTRICT 4.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Forest Service Building, Ogden, Utah.

E. A. SHERMAN, district forester; J. P. MARTIN, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). R. F. FEAGANS, assistant to the solicitor, in charge.

ACCOUNTS.—Q. R. CRAFT, district fiscal agent.

OPERATION.—A. C. MCCAIN, assistant district forester.

MAINTENANCE.—FELIX T. MOORE.

BOUNDARIES.—R. V. R. REYNOLDS.

SILVICULTURE.—O. M. BUTLER, assistant district forester; D. F. SEERY, lumberman.

PLANTING.—J. M. FETHEROLF.

SILVICS.—E. R. HODSON.

RECONNAISSANCE (special details)—D. M. LANG, deputy forest supervisor; S. S. STEWART, W. N. SPARHAWK, J. W. STOKEL, forest assistants.

GRAZING.—HOMER E. FENN, assistant district forester.

LANDS.—T. C. HOYT, assistant district forester; R. E. GERY, assistant.

SUPPLY DEPOT.—A. M. SMITH, property clerk.

PROPERTY AUDIT.—J. G. FALCK, property auditor.

NATIONAL FORESTS.

ARIZONA.

Dixie.—See Utah.

Kaibab.—JAMES L. PELTON, forest supervisor, Kanab, Utah (WU-WF).

IDAHO.

Boise.—E. GRANDJEAN, forest supervisor, Boise (WU-Am); M. S. Benedict, deputy forest supervisor; Dana Parkinson, forest assistant.

Cache.—See Utah.

Caribou.—G. G. BENTZ, forest supervisor, Montpelier (WU-Am).

Challis.—DAVID LAING, forest superivor, Challis (WU-Am).

Idaho.—HERBERT GRAFF, forest supervisor, McCall (WU-P); Hubert C. Williams, forest assistant.

Lemhi.—C. I. HUDDLE, forest supervisor, Mackay (WU-Am); S. B. Arthur, deputy forest supervisor; A. L. Brower, deputy forest supervisor.

Minidoka.—WILLIAM MCCOY, forest supervisor, Oakley (WU-Am).

Palisade.—FRANK J. RYDER, forest supervisor, St. Anthony (WU-Am); Lucas W. Hastings, deputy forest supervisor.

Payette.—GUY B. MAINS, forest supervisor, Emmett (WU-Am); Lawrence J. Phelan, deputy forest supervisor; Lee O. Miles, forest assistant.

Pocatello.—J. F. BRUINS, forest supervisor, Pocatello (WU-Am); Pocatello Nursery, P. T. Wrensted, forest ranger.

Salmon.—JAMES M. RYAN, forest supervisor, Salmon (WU-Am); John A. Pearson, deputy forest supervisor.

Sawtooth.—C. N. Woods, forest supervisor, Hailey (WU-Am); H. G. McPheters, deputy forest supervisor; Samuel B. Locke, forest assistant.

Targhee.—Chester B. Morse, forest supervisor, St. Anthony (WU-Am); Charles A. Beam, deputy forest supervisor; James B. Saxton, forest assistant.

Weiser.—J. B. Lafferty, forest supervisor, Weiser (WU-Am); W. M. Campbell, deputy forest supervisor; A. E. Oman, forest assistant.

NEVADA.

Humboldt.—C. Sydney Tremewan, forest supervisor, Elko (WU-WF); Geo. C. Thompson, deputy forest supervisor; Herman Work, forest assistant.

Moapa.—Thomas J. Collins, forest supervisor, Austin (WU-Am).

Nevada.—R. F. Mathias, forest supervisor, Ely (WU-WF).

Santa Rosa.—W. W. Blakeslee, forest supervisor, Paradise.

Toiyabe.—Thomas J. Collins, forest supervisor, Austin (WU, P-WF).

UTAH.

Ashley.—W. M. Anderson, forest supervisor, Vernal (WU-WF); Lester E. Hitchcock, forest assistant.

Cache.—Clinton G. Smith, forest supervisor, Logan (WU-Am); J. W. Humphrey, deputy forest supervisor; E. C. Shepard, forest assistant.

Dixie.—John Raphael, forest supervisor, St. George (WU-WF).

Fillmore.—Wm. Hurst, forest supervisor, Beaver (WU-WF).

Fishlake.—Carl B. Arentson, forest supervisor, Salina (WU-WF).

La Sal.—Henry A. Bergh, forest supervisor, Moab (WU-WF).

Manti.—A. W. Jensen, forest supervisor, Ephraim (WU-WF); Ernest Winkler, deputy forest supervisor; F. T. McLean, deputy forest supervisor.

Minidoka.—See Idaho.

Nebo.—Dan S. Pack, forest supervisor, Nephi (WU-WF).

Pocatello.—See Idaho.

Powell.—Geo. H. Barney, forest supervisor, Escalante (WU-WF).

Sevier.—O. C. Snow, forest supervisor, Panguitch (WU-WF).

Uinta.—W. I. Pack, forest supervisor, Provo (WU-WF); J. Carl Allred, deputy forest supervisor; Nils B. Eckbo, forest examiner.

Wasatch.—E. H. Clarke, forest supervisor, Salt Lake City (WU, P-Am, WF); Wasatch Nursery, N. J. Fetherolf, forest planting assistant.

WYOMING.

Ashley.—See Utah.

Caribou.—See Idaho.

Palisade.—See Idaho.

Targhee.—See Idaho.

Teton.—R. E. Miller, forest supervisor, Jackson (WU-Am); H. B. Maris, forest assistant.

Wyoming.—James E. Jewell, forest supervisor, Afton (WU-Am); John E. Ingram, forest assistant.

DISTRICT 5.

California and southwestern Nevada. Office, First National Bank Building, San Francisco, Cal.

COERT DUBOIS, district forester; WALTER L. HUBER, district engineer; CLARENCE WILEY, inspector of records.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor in charge; MAURY CURTIS, assistant to the solicitor.

ACCOUNTS.—F. C. THOMPSON, district fiscal agent.

OPERATION.—ROY HEADLEY, assistant district forester.

MAINTENANCE.—F. H. SMITH.

SILVICULTURE.—T. D. WOODBURY, assistant district forester; SWIFT BERRY, forest assistant.

SILVICS.—J. A. MITCHELL, forest assistant.

E. P. Meinecke, consulting pathologist, San Francisco, Cal.

GRAZING.—JOHN H. HATTON, assistant district forester.

LANDS.—L. A. BARRETT, assistant district forester.

PRODUCTS.—C. STOWELL SMITH, assistant district forester, in charge; C. A. Kupfer, forest assistant; A. K. Armstrong, engineer in timber tests; Geo. M. Hunt, assistant chemist in forest products, San Francisco, Cal.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P-WF); Jesse W. Hough, forest assistant, San Bernardino; Serope Y. Parney, forest planting assistant, Redlands.

California.—D. P. GODWIN, forest supervisor, Willows (P-WF); A. W. Bartlett, deputy forest supervisor; S. W. Strothman, forest assistant.

Cleveland.—H. N. WHEELER, forest supervisor, San Diego (WU, P-WF).

Eldorado.—EVAN W. KELLEY, forest supervisor, Placerville (WU-WF); George W. Lyons, forest assistant.

Inyo.—A. H. HOGUE, forest supervisor, Bishop (WU-WF).

Kern.—W. J. RUSHING, forest supervisor, Bakersfield (WU-WF); Jas. O. Morrow, deputy forest supervisor; Neal T. Childs, forest assistant.

Klamath.—W. B. RIDER, forest supervisor, Yreka (WU-WF); J. R. Hall, deputy forest supervisor; Shirley W. Allen and Douglas K. Noyes, forest assistants.

Lassen.—L. A. H. KLING, forest supervisor, Red Bluff (P-WF); R. H. Boerker, forest assistant.

Modoc.—C. E. RACHFORD, forest supervisor, Alturas (P-WF); Vernon L. Bonner, deputy forest supervisor; Belknap C. Goldsmith, forest assistant.

Mono.—See Nevada.

Monterey.—N. H. SLOANE, acting forest supervisor, Arbolado (WU, Monterey-WF, Monterey).

Plumas.—D. N. ROGERS, forest supervisor, Quincy (WU, Keddie, Cal.-WF); W. G Durbin, deputy forest supervisor; R. S. Maddox and George R. Orr, forest assistants.

Santa Barbara.—D. D. BRONSON, acting forest supervisor, Santa Barbara (P-WF); H. G. Merrill, deputy forest supervisor; W. H. Moore, forest assistant.

Sequoia.—ALLAN B. PATTERSON, forest supervisor, Hot Springs, Tulare County (WU via Portersville-WF); W. C. Burton, deputy forest supervisor; S. W. Wynne, forest assistant.

Shasta.—R. F. HAMMATT, forest supervisor, Sisson (P-WF); M. R. Tillotson, deputy forest supervisor; Stewart B. Show and Edward I. Kotok, forest assistants.

Sierra.—P. G. REDINGTON, forest supervisor, Northfork (WU via Friant-WF, Friant); M. A. Benedict, deputy forest supervisor; Ernest G. Dudley, forest assistant; J. C. Elliott, C. H. Ensign, reconnaissance.

Stanislaus.—R. W. AYRES, forest supervisor, Sonora (WU-WF); T. C. West, deputy forest supervisor; J. V. Wulff and Louis T. Larsen, forest assistants; Patrick Kennedy, reconnaissance.

Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU-WF); M. B. Pratt, deputy forest supervisor; K. Mills, forest assistant.

Trinity.—W. A. HUESTIS, forest supervisor, Weaverville (WU-WF); J. D. Coffman, deputy forest supervisor; Ernst V. Jotter and Howard DeForest, forest assistants.

NEVADA.

Inyo.—See California.

Mono.—WM. M. MAULE, forest supervisor, Gardnerville (WU-WF); Rex King, forest assistant.

Tahoe.—See California.

OREGON.

Eldorado.—See California.

DISTRICT 6.

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

GEO. H. CECIL, district forester; W. E. HERRING, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge; EARL C. ARNOLD, assistant to the solicitor.

ACCOUNTS.—A. H. COUSINS, district fiscal agent.

OPERATION.—C. H. FLORY, assistant district forester.

MAINTENANCE.—SHIRLEY BUCK.

SILVICULTURE.—F. E. AMES, assistant district forester; C. S. JUDD, assistant district forester; W. T. ANDREWS, lumberman; EDWIN C. ERICKSON, scaler.

PLANTING.—J. F. KÜMMEL.

SILVICS.—T. T. MUNGER.

Studies, E. J. Hanzlik, Portland; G. A. Bright, Portland; A. G. Jackson, Portland.

GRAZING.—T. P. MACKENZIE, assistant district forester.

LANDS.—C. J. BUCK, assistant district forester; G. F. MEAD, examiner.

PRODUCTS.—J. B. KNAPP, assistant district forester, in charge; H. B. Oakleaf, C. W. Dunning, J. F. Pernot, Portland; O. P. M. Goss, C. W. Zimmerman, H. P. Wyckoff, Seattle, Wash.

NATIONAL FORESTS.

ALASKA.

Chugach.—W. G. Weigle, forest supervisor, Ketchikan (SC, U. S. A., WU-AP. Am); Thos. M. Hunt, deputy forest supervisor; Bruce Hoffman, forest assistant.

Tongass.—W. G. Weigle, forest supervisor, Ketchikan (SC, U. S. A., WU-AP, Am); Max Rothkugel, forest assistant.

CALIFORNIA.

Crater.—See Oregon.

Siskiyou.—See Oregon.

OREGON.

Cascade.—C. R. Seitz, forest supervisor, Eugene (WU, P-WF); Wm. H. Gibbons, deputy forest supervisor; B. Frank Heintzleman, forest assistant.

Crater.—M. L. Erickson, forest supervisor, Medford (WU, P-WF); S. S. Swenning, deputy forest supervisor; H. D. Foster and William E. White, forest assistants.

Deschutes.—J. Roy Harvey, forest supervisor, Bend (WU, PT & T-Ad via Opal City, GN via Opal City).

Fremont.—Gilbert D. Brown, forest supervisor, Lakeview (WU via Reno, Nev.-WF); Norman G. Jacobson, forest assistant; Nelson J. Billings, grazing assistant.

Klamath.—See California.

Malheur.—Cy. J. Bingham, forest supervisor, John Day (WU via Baker City-Am, WF via Baker City); D. B. Reynolds, deputy forest supervisor.

Minam.—H. W. Harris, forest supervisor, Wallowa (WU-Am); S. A. Brown, deputy forest supervisor.

Ochoco.—Homer Ross, forest supervisor, Prineville (PT & T-Am); Ephraim Barnes, deputy forest supervisor.

Oregon.—T. H. Sherrard, forest supervisor, Portland (WU, P-Am, WF, N); Ralph S. Shelley, deputy forest supervisor; W. B. Osborne, forest assistant.

Paulina.—W. W. Cryder, forest supervisor, Crescent (WU, PT & T-Ad, GN via Opal City).

Santiam.—N. F. MacDuff, forest supervisor, Albany (WU-WF); E. B. Starr, forest assistant.

Siskiyou.—R. L. Fromme, forest supervisor, Grants Pass (WU, P-WF); Allen Hodgson, deputy forest supervisor; H. Haefner, forest assistant.

Siuslaw.—A. E. Cohoon, forest supervisor, Eugene (WU, P-WF); David E. Fitton, deputy forest supervisor.

Umatilla.—Hugh B. Rankin, forest supervisor, Heppner (WU-AM).

Umpqua.—S. C. Bartrum, forest supervisor, Roseburg (WU, P-WF); E. H. McDaniels, deputy forest supervisor; Arthur Kerr, forest assistant.

Wallowa.—H. W. Harris, forest supervisor, Wallowa (WU-Am); Robie M. Evans, forest assistant.

Wenaha.—See Washington.

Whitman.—Henry Ireland, forest supervisor, Sumpter (WU via Baker City-Am, WF via Baker City); M. L. Merritt, deputy forest supervisor; Harold P. Gilkey and Lawrence Pagter, forest assistants.

WASHINGTON.

Chelan.—G. W. MILHAM, forest supervisor, Chelan (PT & T-Am, GN via Wenatchee); H. M. Coan, forest assistant.

Columbia.—H. O. STABLER, forest supervisor, Portland, Oreg. (WU, P-Am, WF, N); W. W. G. Hastings, deputy forest supervisor; A. R. Wilcox and Lage Wernstedt, forest assistants.

Colville.—C. C. REID, forest supervisor, Republic (WU, P-Am, GN); F. W. Cleator, deputy forest supervisor; Edward W. Headsten, forest assistant.

Okanogan.—H. M. HALE, forest supervisor, Okanogan; V. V. Harpham, deputy forest supervisor.

Olympic.—P. S. LOVEJOY, forest supervisor, Olympia (WU-Am, GN, N); A. A. Parker, deputy forest supervisor.

Rainier.—G. F. ALLEN, forest supervisor, Tacoma (WU, P-Am, N); P. T. Harris, deputy forest supervisor; E. J. Fenby, forest assistant.

Snoqualmie.—B. P. KIRKLAND, forest supervisor, Seattle (WU, P-N, GN, WF); Lewis A. Treen, jr., deputy forest supervisor; Walter H. Leve, forest assistant.

Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P-Am, GN, N); F. H. Brundage, deputy forest supervisor; Herman M. Johnson, forest assistant.

Wenaha.—J. M. SCHMITZ, forest supervisor, Walla Walla (WU-Am, N).

Wenatchee.—A. H. SYLVESTER, forest supervisor, Leavenworth (WU-Am, GN); C. P. Willis, forest assistant.

SERVICE CHANGES.

APPOINTED.

DISTRICT 1.—Operation: Frank G. Pierce, assistant forest ranger, Beartooth National Forest; Will M. Pratt, assistant forest ranger, Gallatin National Forest; Alvah Strong, forest clerk, Kaniksu National Forest; Evalyn Eddy, clerk (stenographer and typewriter), St. Joe National Forest; Nellie S. Serier, clerk (stenographer and typewriter), Superior National Forest. Lands: Ulysses S. Swartz, agent.

DISTRICT 2.—District office: J. Leroy Mathias, junior engineer; M. Edith Garver, clerk (stenographer and typewriter). Operation: Alison L. Kroeger, assistant forest ranger, Durango National Forest; Linley R. Engele, assistant forest ranger, Nebraska National Forest; Bertram J. Ray, assistant forest ranger, Uncompahgre National Forest; Theodore Krueger, clerk (stenographer and typewriter), Nebraska National Forest; Pauline Brautigam, clerk (stenographer and typewriter), Kansas National Forest.

DISTRICT 3.—Law: Daniel F. McGowan, assistant to the solicitor, district office (by transfer from District 6). Operation: Charles W. McKibbin, forest assistant, Apache National Forest; Candelario B. Sedillo, forest clerk, Datil National Forest; Myron G. Browne, clerk, Gila National Forest; Leslie T. Mahurin, forest clerk, and N. Curtis Case, forest assistant, Ozark National Forest; Frank C. Douglas, forest clerk, Tonto National Forest; Charles C. Carr and John R. Towles, forest clerks Tusayan National Forest. Lands: Marie A. Schach, map colorist, district office.

District 4.—Operation: James H. Hull, assistant forest ranger, Boise National Forest; Hensley G. Harris, forest clerk, Minidoka National Forest. District office: Florence H. J. Redfield, clerk (typewriter).

District 5.—District office: Rowland L. Egenhoff, hydraulic engineer; W. A. Greer, clerk (stenographer and typewriter). Operation: Alfred R. Ratcliff, clerk (stenographer and typewriter), Cleveland National Forest; Roderick M. Fleming, clerk (stenographer and typewriter), Lassen National Forest; Roy H. Blood, forest clerk, Sierra National Forest; Roy C. Hennessey, clerk (typewriter), Stanislaus National Forest; Gertrude Emmerich, clerk (stenographer and typewriter), Tahoe National Forest.

District 6.—Operation: Clarence M. Adams, clerk, Olympic National Forest; Charles W. Long, forest clerk, Paulina National Forest.

RESTORED TO THE ROLLS.

District 1.—Operation: Aretas A. Saunders, forest assistant, Lewis and Clark National Forest; assistant forest rangers—George E. McKinsey, Beartooth National Forest; Charles E. Brackett, Beaverhead National Forest; Walter F. Gilliam and William W. Fuller, Bitterroot National Forest; Thomas Paine Delano, Cabinet National Forest; Charles A. Newman, Custer National Forest; Thomas A. Clapp and Stephen A. Wallace, Deerlodge National Forest; Alfred J. Feary and Frank E. Porter, Kaniksu National Forest; Perry R. Rogers, Kootenai National Forest; Robert L. Townsend, Madison National Forest; Frank J. Smith, Selway National Forest; John D. Brooks, St. Joe National Forest.

District 2.—District office: Scovel H. Johnson, agent; Nellie E. Dillon, forest clerk. Operation: Charles W. Euler, assistant forest ranger, Arapaho National Forest; Thomas O. Patterson, assistant forest ranger, Battlement National Forest; George E. Belknap, assistant forest ranger, Bridger National Forest; Guy E. Tefft, assistant forest ranger, Durango National Forest; Walter T. Schmehl, assistant forest ranger, Washakie National Forest; James C. Jensen, forest ranger, Hayden National Forest.

District 3.—Operation: Luetta C. Steinemann, clerk (stenographer and typewriter), Gila National Forest; James P. Leese, forest ranger, and James R. Ewell, assistant forest ranger, Jemez National Forest. Silviculture: John H. Allison, forest examiner, district office; Henry L. Johnson, forest assistant, Sitgreaves National Forest.

District 5.—Operation: Sylvester W. Strothman, forest assistant, California National Forest; Samuel B. Clifton, assistant forest ranger, Angeles National Forest.

District 6.—Operation: U. L. Upson, jr., clerk, Siskiyou National Forest; assistant forest rangers—Wm. C. Fruit, A. L. Peachey, and George H. West, Crater National Forest; Grover C. Conger, Malheur National Forest; George K. Ledford, Oregon National Forest; E. J. Moore, Snoqualmie National Forest; Geo. E. Stevenson, Wenaha National Forest; John S. Brender, Wenatchee National Forest. Silviculture: Chas. H. Judd, assistant district forester, district office.

REINSTATED.

District 2.—Operation: Clifford T. Adams, assistant forest ranger, Sundance National Forest.

District 4.—Operation: John F. Squires, forest ranger, Cache National Forest.

CHANGE IN DESIGNATION.

Products.—Laboratory: John A. Newlin, engineer in timber tests to engineer in forest products; Carlile P. Winslow, engineer in wood preservation to engineer in forest products; Francis M. Bond, engineer in wood preservation to engineer in forest products; Harold S. Betts, assistant district forester to engineer in forest products; W. K. Hatt, expert to civil engineer.

Appalachian.—Rudolph Dieffenbach, deputy forest supervisor to forest examiner; Jacob L. Pritchard, forest ranger to forest examiner; W. Brooke Dunwoody, field assistant to field examiner; F. Carl Schober, field assistant to field examiner; Hugo Sonderegger, agent to field examiner; Arthur C. Volkmar, agent to field examiner; Frederick A. Gardner, agent to examiner of surveys.

District 1.—Operation: David T. Mason, forest supervisor to assistant district forester; Francis M. Patton, deputy forest supervisor to forest assistant.

District 3.—Grazing: Arthur D. Read, deputy forest supervisor to forest examiner, district office.

District 5.—Operation: Ernest B. Long, deputy forest supervisor to forest ranger, Angeles National Forest.

TRANSFERRED.

District 1.—Accounts: Henry J. Weil, clerk, from Census Office, Department of Commerce and Labor, to district office; Albert G. Crutchfield, clerk, from district office to Census Office, Department of Commerce and Labor. Operation: Ralph W. French, forest clerk, from Clearwater National Forest to Coeur d'Alene National Forest; E. C. Clifford, forest assistant, from Lolo National Forest to Madison National Forest; Kenneth D. Swan, forest assistant, from Jefferson National Forest to Sioux National Forest. Silviculture: David T. Mason, forest supervisor, Deerlodge National Forest to assistant district forester, district office.

District 2.—District office: Louis V. Woulfe, clerk, from Minidoka National Forest, District 4. Operation: Alfred C. Anderson, forest clerk, from Medicine Bow National Forest to San Isabel National Forest; Thomas Topham, forest clerk, from San Isabel National Forest to Medicine Bow National Forest; Francis L. W. Grubb, assistant forest ranger, from San Juan National Forest to Durango National Forest. Silviculture: Forest assistants—Frank B. Notestein, from Montezuma National Forest to Fremont Experiment Station; Huber C. Hilton, from Medicine Bow National Forest to Arapaho National Forest; Percy T. Smith, from Washington, D. C., to Black Hills National Forest; George R. Morrison, Fremont Experiment Station to Holy Cross National Forest; Gordon Parker, from Washakie National Forest to Montezuma National Forest; Fred R. Johnson, from Arapaho National Forest to Nebraska National Forest.

DISTRICT 3.—Operation: J. A. Simmons, forest ranger, Alamo National Forest to Gila National Forest; Andrew H. Edwards, assistant forest ranger, Coronado National Forest to Tusayan National Forest; Adolph G. McCloskey, forest clerk, Gila National Forest to Sitgreaves National Forest; James R. Ewell, assistant forest ranger, Jemez National Forest to Pecos National Forest; Ralph L. Bateman, assistant forest ranger, Lincoln National Forest to Coconino National Forest, to Sitgreaves National Forest; John V. Hobbie, assistant forest ranger, Lincoln National Forest to Coconino National Forest; Wilbur R. Mattoon, forest supervisor, Manzano National Forest to District 7; William L. Bishop, forest clerk, Tonto National Forest to District 6; John R. Towles, forest clerk, Tusayan National Forest to Zuni National Forest, to Datil National Forest. Silviculture: Thomas B. Longwell, forest ranger, Alamo National Forest to Sitgreaves National Forest; Gustaf A. Pearson, forest examiner, Coconino Experiment Station to district office; Oliver F. Bishop, William C. Koepke, Raymond E. Marsh, and Robert S. Wallace, forest assistants, Jay L. B. Taylor, forest ranger, and Clarence Goddard, assistant forest ranger, from Ozark National Forest to Arkansas National Forest.

DISTRICT 4.—Operation: Herbert Graff, forest supervisor, Toiyabe National Forest to Idaho National Forest; deputy forest supervisors—Duncan M. Lang, Teton National Forest to Idaho National Forest; Rudolph Dieffenbach, Nevada National Forest to District 7 (Washington office); forest rangers—John F. Squires, Cache National Forest to district office; Bernard E. Mattsson, Manti National Forest to Fishlake National Forest; assistant forest rangers—James A. Cahill, Nevada National Forest to Toiyabe National Forest; Andrew A. Casner, Boise National Forest to Kaibab National Forest; Hans A. Wickham, Fishlake National Forest to Manti National Forest; Louis V. Woulfe, clerk, Minidoka National Forest to District 2; Thomas F. Myers, forest clerk, Caribou National Forest to District 3.

DISTRICT 6.—District forester: F. A. Elliott, collaborator, District 7 to District 6. Law: D. F. McGowan, law clerk, District 6 to District 3. Operation: Adelaide G. King, clerk, Umpqua National Forest to district office; William L. Bishop, clerk, District 3 to District 6.

PROMOTED IN RANK.

DISTRICT 2.—Operation: Roy G. Pierce, forest assistant to deputy forest supervisor, Nebraska National Forest.

DISTRICT 3.—Elza E. Poynter, assistant forest ranger to forest ranger, Jemez National Forest; Jay L. B. Taylor, assistant forest ranger to forest ranger, Ozark National Forest; Edgar M. Twitty, assistant forest ranger to forest ranger, Tusayan National Forest.

DISTRICT 4.—Operation: Thomas J. Collins, deputy forest supervisor, Moapa National Forest, to forest supervisor, Toiyabe and Moapa National Forests; Raymond G. Steele, forest ranger to deputy forest supervisor, Toiyabe National Forest; Asa L. Brower, forest assistant to deputy forest supervisor, Lemhi National Forest; Edgar P. Huffman, assistant forest ranger to forest ranger, Challis National Forest. District office: Florence I. Shafer, copyist-topographic draftsman to topographical draftsman.

DISTRICT 5.—Operation: Frederick H. Hafley, from forest ranger to deputy forest supervisor, district office; Frank B. Cayot, assistant forest ranger to forest

ranger, Plumas National Forest; Samuel B. Clifton, deputy forest ranger to assistant forest ranger, Angeles National Forest.

LEAVE WITHOUT PAY.

APPALACHIAN.—C. D. Cushing, expert.

DISTRICT 1.—Operation: David G. Kinney, forest supervisor, Missoula National Forest; Joseph W. Collette, forest clerk, Absaroka National Forest. Assistant forest rangers—William E. Lockhart, Beartooth National Forest; Charles E. Brackett, Beaverhead National Forest; Percy Knowles and Winthrope H. Young, Bitterroot National Forest; Ernest B. Clark, Cabinet National Forest; James D. Shy, Custer National Forest; C. Lee Billings, Harold Townsend, and Harry G. Hungate, Deerlodge National Forest; Edward J. Weidner, Kootenai National Forest; George Grigg, Lewis and Clark National Forest; Charles E. Vealey, Lolo National Forest; Sterling H. Findley, Madison National Forest; Ray R. Fitting, Frank J. Smith, and Adolph Weholt, Selway National Forest.

DISTRICT 2.—District office: Rinda J. Hardenbrook, clerk (stenographer and typewriter); Harry M. Booth, expert miner. Operation: Eugene M. Stone, assistant forest ranger, Uncompahgre National Forest. Silviculture: Crosby A. Hoar, forest assistant, White River National Forest.

DISTRICT 3.—Operation: Charles D. Munro and Luther L. Gaskill, forest clerks, and Joseph J. Jones, assistant forest ranger, Datil National Forest; Patrick A. Fenton, forest ranger, Tusayan National Forest; Marion Franklin, clerk (typewriter), Zuni National Forest. Silviculture: Daniel D. Harkness, forest ranger, Tonto National Forest.

DISTRICT 4.—Operation: Julian E. Rothery, forest supervisor, Idaho National Forest. Assistant forest rangers—Henry K. Lewis, Boise National Forest; John F. Woodman, Targhee National Forest; Edward Brown and James F. Matthews, Toiyabe National Forest.

DISTRICT 5.—Operation: Frances Wainwright, clerk (stenographer and typewriter), district office; Fred E. Field, clerk (stenographer and typewriter), Cleveland National Forest; Minnie B. Lamson, clerk, Cleveland National Forest. Assistant forest rangers—George Crow, Angeles National Forest; Thomas T. Dinsmore, Santa Barbara National Forest; Hugh R. Downey, Sierra National Forest; William H. Gallaher, forest assistant, Tahoe National Forest. Silviculture: Fred L. Rickey, forest planting assistant, Shasta National Forest.

DISTRICT 6.—Operation: Frank B. Kellogg, deputy forest supervisor, Cascade National Forest. Assistant forest rangers—Robert S. Bennett, Malheur National Forest; Parker S. Bonney, Olympic National Forest; John L. Jones, Washington National Forest.

FURLOUGHED.

DISTRICT 1.—Operation: Assistant forest rangers—Henry J. Lampe, Absaroka National Forest; Frank A. Clark, Beartooth National Forest; Philip A. Clack, Frank McClung, Frederick J. Holbrook, Flathead National Forest; Wayne F. Alexander, John D. Brooks, David C. Huson, John C. Ketridge, Perry R. Rogers, Kootenai National Forest; Ben P. Martin, Raymond E. Maurer, Madison National Forest;

Edwin T. Irvine, Missoula National Forest; Frank B. Rogers, Selway National Forest; Henry F. Kottkey, St. Joe National Forest.

District 2.—Operation: Sidney H. Axmear, forest clerk, Bonneville National Forest; Nellie E. Dillon, forest clerk, San Isabel National Forest; Edwin Bluck, forest ranger, Durango National Forest. Assistant forest rangers—David E. Basham, Bridger National Forest; Thomas E. Price, Durango National Forest; Guy E. Tefft, Durango National Forest; Kenson J. Helmick, Gunnison National Forest; Percy R. Westover, Hayden National Forest; William R. Kenney, Uncompahgre National Forest; D. Kirk Shaw, White River National Forest.

District 3.—Operation: Sam A. Blocker, forest ranger, and Marshall W. Parker, assistant forest ranger, Alamo National Forest; Max H. Foerster, forest assistant, Coconino National Forest; James J. Woolsey, assistant forest ranger, Crook National Forest; John R. Coleman and Lewis J. Mundell, assistant forest rangers, Lincoln National Forest; William C. Roderus, assistant forest ranger, Prescott National Forest; George M. Nyce, assistant forest ranger, Sitgreaves National Forest; Fred W. Canfield, assistant forest ranger, Zuni National Forest.

District 5.—Operation: Newton Garner, deputy forest ranger, Angeles National Forest; Henry W. Muzzall, deputy forest ranger, Santa Barbara National Forest; assistant forest rangers—Isaac W. Decker, Cleveland National Forest; William J. Hoskins, Inyo National Forest; Douglas Robinson, Inyo National Forest; Harvey P. Rogers, Plumas National Forest; William A. Smith, Santa Barbara National Forest; George A. Gerber, Stanislaus National Forest; Charles W. Sutcliffe, Tahoe National Forest.

District 6.—Walter H. Leve, forest assistant, Snoqualmie National Forest.

RESIGNED.

Appalachian.—James O. Howard, agent.

District 1.—Operation: Ethie H. McKay, clerk, district office; Roy L. Medcalfe, clerk (stenographer and typewriter), district office; John M. Bedford, forest assistant, Absaroka National Forest; Hosea T. Parker, assistant forest ranger, Beartooth National Forest; William Ellis, assistant forest ranger, Cabinet National Forest; Cuno R. Bryant, forest clerk, Custer National Forest; Oline C. Graeter, forest clerk, and Elwood I. Terry, forest assistant, Deerlodge National Forest; Willis N. Millar, forest supervisor, Kaniksu National Forest; Frank F. Bening, assistant forest ranger, Kootenai National Forest.

District 2.—District office: Henry L. Thackwell, expert. Operation: Harry W. Thurston, forest supervisor, Shoshone National Forest; Edward Allen Brown, clerk (stenographer and typewriter), Bonneville National Forest; James H. McCuen, clerk (stenographer and typewriter), Sopris National Forest; Thomas E. Jacques, forest ranger, Uncompahgre National Forest; assistant forest rangers—Benjamin F Shelledy, Battlement National Forest; August W. F. Gundlach, Black Hills National Forest; Ben Burch, Medicine Bow National Forest; Silas H. Wright, Pike National Forest; Glenn K. Munsell, Rio Grande National Forest; Herbert J. States and Joseph C. Warthen, Washakie National Forest. Silviculture: George P. Gregg, lumberman.

District 3.—Law: Blake Franklin, law clerk, district office. Operation: Ellery F. Lawrence, assistant forest ranger, Carson National Forest; Charles R. Childs, assistant forest ranger, Coronado National Forest; Plato D. Edmunds, forest agent,

Florida National Forest; Arthur J. Wells, assistant forest ranger, Pecos National Forest; Alexander J. MacKay, forest supervisor, Sitgreaves National Forest; John Zalaha, forest clerk, Tusayan National Forest; Harry C. Hall, deputy forest supervisor, Prescott National Forest.

DISTRICT 5.—Operation: Rex King, forest assistant, Mono National Forest; William S. Everts, assistant forest ranger, Monterey National Forest; John E. Thackara, assistant forest ranger, Shasta National Forest; Jesse E. Roberts, assistant forest ranger, Sierra National Forest; Lois Vial, clerk (typewriter), Stanislaus National Forest.

DISTRICT 6.—District forester: Walter W. Clifford, hydraulic engineer, district office. Operation: Assistant forest rangers—Frank C. McMillan, Chelan National Forest; Revis Costelloe, Siskiyou National Forest; Albert Jeffreys, Wenaha National Forest.

APPOINTMENT TERMINATED.

DISTRICT 1.—Operation: Lester E. Palmer, forest clerk, Coeur d'Alene National Forest.

DISTRICT 2.—Operation: Roy G. Waters and Louis H. Miller, assistant forest rangers, Montezuma National Forest.

DISTRICT 3.—Operation: W. Russell Rose, forest clerk, Alamo National Forest.

DISTRICT 4.—Operation: Clarence E. Dunston, deputy forest supervisor, Targhee National Forest, on account of transfer to office of Indian Affairs; Abraham Rosenmond, forest assistant, Manti National Forest.

DISTRICT 5.—District office: Rowland L. Egenhoff, hydraulic engineer; Theo. C. Zschokke, agent. Operation: Fred Hanson, assistant forest ranger, Cleveland National Forest; George L. Leboeuf, clerk (typewriter), Lassen National Forest; Ballard R. Garrett, assistant forest ranger, Trinity National Forest.

DISTRICT 6.—Silviculture: Russell G. Pond, computer, district office.

RESTORATION REVOKED.

DISTRICT 2.—Operation: Roy G. Waters, assistant forest ranger, Durango National Forest.

DISMISSED.

DISTRICT 2.—Operation: Assistant forest rangers—Leo F. Buchholz, Arapaho National Forest; Walter J. Hill, Bonneville National Forest; Asa W. Stuckey, Nebraska National Forest.

DISTRICT 3.—Operation: Willard L. Sevier, assistant forest ranger, Tusayan National Forest.

With deep regret announcement is made of the following deaths: Mrs. Elsie R. Coale, stenographer and typewriter, February 14, at Washington, D. C.; Miss Meta T. McLaws, stenographer and typewriter, March 29, at Augusta, Ga.; Charles F. Hatch, statistician in forest products, March 26, at Washington, D. C.; T. W. Carscallen, assistant forest ranger, Manzano National Forest, March 1; and Ballard R. Garrett, assistant forest ranger, Trinity National Forest, March 8.

SERVICE NOTES FOR APRIL.

These notes contain instructions and necessary information for forest officers, and will therefore be carefully read and kept on file for reference.

LAW.

OFFICE OF THE SOLICITOR.

Granting of Easements through National Forests—

In reply to a joint letter of the Secretary of the Interior and the Secretary of Agriculture, requesting to be advised whether upon a proper construction of the provisions of the agricultural appropriation act of March 4, 1911 (ch. 238, 36 Stat., 1253), the conveyance or granting of rights of way thereunder devolve upon the Secretary of the Interior or the Secretary of Agriculture when the lands to be affected thereby lie within the confines of Forest Reservations, in an opinion prepared by Assistant Attorney General Ernest Knaebel and approved by the Attorney General, it was held "that the authority to grant the easements contemplated by the legislation referred to is vested in the Secretary of Agriculture, when and in so far as the lands to be affected constitute portions of the National Forest."

Law Cases in District 1—

At the February term of the district court for the district of Montana indictments were returned against Earl Bush, E. Marott, L. E. Woodworth, and H. M. Lathem for leaving unattended a camp fire in the Deerlodge National Forest. The defendants pleaded guilty, and were fined $15 each.

George Robinson, charged with having maliciously injured a Forest Service telephone line after having forcibly entered a ranger station and stolen the ranger's rifle, was bound over for the action of the grand jury at the July term of the United States district court for Minnesota.

Law Cases in District 2—

The case against John A. Donnel, grazing tresspass, referred to the Department of Justice, was settled by the payment of $19.20 and costs.

The Federal grand jury, on March 20, 1912, failed to indict Victor Nunez and Jose Lial, charged with willful grazing trespass, and Michael Caylor, for willful destruction of Forest Service notices on the Pike National Forest.

On December 13, 1911, the Federal grand jury at Denver returned an indictment against J. H. Neal for willful cutting of timber on the Leadville National Forest.

For setting and leaving unattended camp fires on the Black Hills National Forest, Louis Povlovich and five others were bound over to the grand jury which will meet at Deadwood in May.

Special-use Permit Held of Full Force and Effect.—Le Roy and Wilson brought suit against H. F. Swanson in the county court of Clear Creek County, Colo., to eject Swanson from land in the Pike National Forest which Swanson was occupying under a special-use permit. The plaintiffs had located mining claims and a mill site covering the land so held by Swanson subsequent to the issuance of the permit. In January the United States attorney filed with the court suggestions setting out the interests of the Government and the court held that the special-use permit was in full force and effect, and that the defendant Swanson was entitled to the use, possession, and occupation of the land described in the permit.

A bill was filed in the circuit court seeking to enjoin the Henrylyn irrigation district, Inter-Mountain Water Co., and J. A. McIlwee from constructing a tunnel on the Pike and the Arapaho National Forests, through the Continental Divide, without a permit.

On March 7 complaint was filed in the Federal district court of Colorado seeking to enjoin the Wagon Wheel Gap Improvement Co. and Ellwood Bergey from closing a public highway to timber purchasers from the Government.

Suit formerly instituted against J. G. La Sarre in the northern district of Illinois for starting a fire on the Sundance National Forest was transferred to the district of South Dakota, and the United States attorney authorized to accept $116.10 offered by defendant in full settlement.

In November the Secretary transmitted to the Postmaster General the facts in connection with the use, by C. J. Patton, of the United States mails in furtherance of a fraudulent scheme in connection with lieu-land selections in the Harney National Forest.

Law Cases in District 3—

On January 16, 1912, a temporary injunction was issued against George W. Hance restraining him from grazing cattle on the Prescott National Forest.

On January 15 the United States grand jury at Fort Smith, Ark., indicted William H. Brashears for making and presenting a false claim against the Government.

F. L. Kirby, Charged with Murder, Released.—On February 1, F. L. Kirby, assistant forest ranger on the Crook National Forest, was arrested for murder. At the hearing, February 3, it appeared that the killing was done in self-defense while Kirby was engaged in the performance of his official duties. Kirby was released.

On March 18, 1912, the United States attorney, East Las Vegas, N. Mex., reported that the referee in the case of the United States *v.* Margarito Romero, timber trespass on the Pecos National Forest, had filed his report recommending an injunction, together with damages in the sum of $100.

Law Cases in District 4—

George Bostas, charged with grazing trespass on lands reserved for the Pocatello, Idaho, watershed, pleaded guilty March 14, and was fined $25. Elmer Lapray, charged with grazing trespass on the Pocatello National Forest, pleaded guilty and was fined $25. Andrew Ross, jr., a minor, charged with fire trespass on the Fillmore National Forest, was fined $5 and costs by a justice of the peace.

In the suit against Philip Walston to recover damages for fire trespass on the Weiser National Forest the jury returned a verdict for the defendant.

Cases reported to the Department of Justice were settled as follows: United States *v.* Oliver B. Picket, grazing trespass, Minidoka National Forest, $12.50 actual damages, $50 punitive damages; Lapray brothers, grazing trespass, Pocatello National Forest, $6 actual damages, $25 punitive damages, $61.50 costs.

Law Cases in District 5—

The Federal grand jury at Los Angeles, Cal., returned indictments February 13 against Ignacio Salazar and Felippo Poggi for fire trespass on the Cleveland National Forest; refused to return an indictment against Shamikarva, Otsu & Hase (Japanese in the employ of E. S. Babcock), and against Edward Putze, for fire trespass on the same forest.

In the case of United States *v.* F. W. Koehler, grazing trespass on the Lassen National Forest, settlement was made without suit in the sum of $87.45 actual and $50 punitive damages.

Law Cases in District 6—

The trial of Tom Cannon, February 8, in the United States district court for the eastern district of Washington, for alleged timber trespass on the Chelan National Forest, resulted in a verdict in favor of the defendant.

H. B. Healey, arrested January 31 for violation of the grazing regulations, was released on a $500 bond in the district court for Oregon.

On February 24 W. L. LaMotte, arraigned in the United States district court for the eastern district of Washington for trespass on the Okanogan National Forest by construction of a flume, pleaded not guilty. His trial was set for the April term of that court.

ACCOUNTS.

Bill of Lading: Appropriation to be indicated—

To facilitate settlement in the Washington office, forest officers making shipments covered by bills of lading are requested to see that the appropriation from which charges are payable is properly indicated in the space provided on the back of the original bill of lading form and on the Form M forwarded to the district fiscal agent.

OPERATION.

Revised Edition of Form 446—

A revised edition of Form 446 will be issued in time for the use of supervisors in making their annual statistical reports for the fiscal year ending June 30, 1912. A special letter of instructions will accompany the form as a guide to supervisors in filling it out as to the items and columns headed by the several schedules. That the form may be speedily and correctly compiled by supervisors it is important that the records of their offices with respect to all classes of business should be made as complete as possible by June 30.

Extension of Liability Act of May 30, 1908—

By an act of Congress approved March 11, 1912, the provisions of the act of May 30, 1908, were made to apply to any artisan, laborer, or other employee engaged in any hazardous work in the Forest Service, with the proviso that this act shall not be

held to embrace any case arising prior to its passage. The act of May 30, 1908, reads as follows:

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That when, on or after August first, nineteen hundred and eight, any person employed by the United States as an artisan or laborer in any of its manufacturing establishments, arsenals, or navy yards, or in the construction of river and harbor or fortification work, or in hazardous employment on construction work in the reclamation of arid lands or the management and control of the same, or in hazardous employment under the Isthmian Canal Commission, is injured in the course of such employment, such employee shall be entitled to receive for one year thereafter, unless such employee, in the opinion of the Secretary of Commerce and Labor, be sooner able to resume work, the same pay as if he continued to be employed, such payment to be made under such regulations as the Secretary of Commerce and Labor may prescribe: *Provided*, That no compensation shall be paid under this act where the injury is due to the negligence or misconduct of the employee injured, nor unless said injury shall continue for more than fifteen days. All questions of negligence or misconduct shall be determined by the Secretary of Commerce and Labor.

SEC. 2. That if any artisan or laborer so employed shall die during the said year by reason of such injury received in the course of such employment, leaving a widow, or a child or children under sixteen years of age, or a dependent parent, such widow and child or children and dependent parent shall be entitled to receive, in such portions and under such regulations as the Secretary of Commerce and Labor may prescribe, the same amount for the remainder of the said year that said artisan or laborer would be entitled to receive as pay if such employee were alive and continued to be employed: *Provided*, That if the widow shall die at any time during the said year her portion of said amount shall be added to the amount to be paid to the remaining beneficiaries under the provisions of this section, if there be any.

SEC. 3. That whenever an accident occurs to any employee embraced within the terms of the first section of this act, and which results in death or a probable incapacity for work, it shall be the duty of the official superior of such employee to at once report such accident and the injury resulting therefrom to the head of his bureau or independent office, and his report shall be immediately communicated through regular official channels to the Secretary of Commerce and Labor. Such report shall state, first, the time, cause, and nature of the accident and injury and the probable duration of the injury resulting therefrom; second, whether the accident arose out of or in the course of the injured person's employment; third, whether the accident was due to negligence or misconduct on the part of the employee injured; fourth, any other matters required by such rules and regulations as the Secretary of Commerce and Labor may prescribe. The head of each department or independent office shall have power, however, to charge a special official with the duty of making such reports.

SEC. 4. That in the case of any accident which shall result in death the persons entitled to compensation under this act or their legal representatives shall, within ninety days after such death, file with the Secretary of Commerce and Labor an affidavit setting forth their relationship to the deceased and the ground of their claim for compensation under the provisions of this act. This shall be accompanied by the certificate of the attending physician setting forth the fact and cause of death, or the nonproduction of the certificate shall be satisfactorily accounted for. In the case of incapacity for work lasting more than fifteen days, the injured party desiring to take the benefit of this act shall, within a reasonable period after the expiration of such time, file with his official superior, to be forwarded through regular official channels to the Secretary of Commerce and Labor, an affidavit setting forth the grounds of his claim for compensation, to be accompanied by a certificate of the attending physician as to the cause and nature of the injury and probable duration of the incapacity, or the nonproduction of the certificate shall be satisfactorily accounted for. If the Secretary of Commerce and Labor shall find from the report and affidavit or other evidence produced by the claimant or his or her legal representatives, or

from such additional investigation as the Secretary of Commerce and Labor may direct, that a claim for compensation is established under this act, the compensation to be paid shall be determined as provided under this act and approved for payment by the Secretary of Commerce and Labor.

SEC. 5. That the employee shall, whenever and as often as required by the Secretary of Commerce and Labor, at least once in six months, submit to medical examination, to be provided and paid for under the direction of the Secretary, and if such employee refuses to submit to or obstructs such examination his or her right to compensation shall be lost for the period covered by the continuance of such refusal or obstruction.

SEC. 6. That payments under this act are only to be made to the beneficiaries or their legal representatives other than assignees, and shall not be subject to the claims of creditors.

SEC. 7. That the United States shall not exempt itself from liability under this act by any contract, agreement, rule, or regulation, and any such contract, agreement, rule, or regulation shall be pro tanto void.

SEC. 8. That all acts or parts of acts in conflict herewith or providing a different scale of compensation or otherwise regulating its payment are hereby repealed.

Printed instructions and the necessary blank forms will be supplied to the district foresters, for distribution to forest officers, as soon as received from the Secretary of Commerce and Labor.

Forest Service Chain-Stadia Pattern—

In addition to the standard stadia pattern, reading 100-foot distances, described on page 58 of the October Field Program, there has been adopted a chain-stadia pattern which gives measurements in Gunter's chains of 66 feet and tenths thereof. The pattern is the same design as the standard stadia pattern, consisting of red and black triangles upon a white background. The sheets have been printed and will be issued by the property clerk as expendable property. Each sheet will contain printed directions for making the rod, similar to those contained on the standard pattern.

Lookout Station Protractor—

A standard protractor for lookout stations has never been adopted, but a number of different forms are being tried. There will soon be issued and obtainable from the property clerk a protector 5 inches in diameter, lithographed on thin transparent paper, from which it can be cut out and pasted upon the station map, properly centered and oriented to the position of the lookout station on the map. This protractor is issued at the request of district 1, but an extra quantity is being printed in order that they may be available in other districts and be given a thorough trial.

Changes in Boundaries and Areas—

Proclamations and Executive orders have been signed changing National Forest boundaries as follows:

In district 1 the proclamation signed February 27 eliminated 73,160 acres from the Jefferson National Forest, Mont.

In district 2 a proclamation was signed February 15 modifying the proclamations of the Black Hills, Harney, and Sioux National Forests, to provide for the carrying out of an agreement entered into January 4, 1910, by the Forest Service and the State of South Dakota. By the agreement the State was to relinquish its claim under its

common-school grant to lands included within the Black Hills National Forest prior to survey, and be allowed to select other lands equivalent in acreage and value lying along and within the boundaries of the National Forests. The exchange involves an area of 60,143 acres. The lieu areas agreed upon for elimination comprise 47,937 acres within the Harney National Forest, the balance to be obtained from the Sioux National Forest. By the proclamation the lieu areas do not become finally eliminated from the National Forests until the selection by the State is perfected. All selections must be filed within 90 days from the date of the proclamation, or within 90 days from the approval of the official plat of survey of the unsurveyed land embraced in the area. The proclamation signed April 1 eliminated 26,440 acres from the Uncompahgre National Forest, Colo.

In districts 3 and 5 the Executive orders signed February 17 transferred a total of approximately 2,414,765 acres of land from the Alamo and Carson Forests, N. Mex.; the Apache and the Sitgreaves Forests, Ariz.; the Zuni Forest, Ariz. and N. Mex.; and the Sequoia and Trinity Forests, Cal., to the Mescalero Apache and Jicarilla Indian Reservations, N. Mex.; the White Mountain Apache Indian Reservation, Ariz.; the Navajo and Zuni Indian Reservations, Ariz. and N. Mex.; and the Tule River and the Hoopa Valley Indian Reservations, Cal. The transferred areas were, according to the opinion of the Acting Attorney General of September 5, 1911, erroneously included within the National Forests by the proclamations of March 2, 1909. The Executive order signed April 1 eliminated 1,600 acres from the Lincoln National Forest, N. Mex.

In district 4 the proclamation signed January 24 eliminated 12,819 acres from and added 60,579 acres to the Cache National Forest, Utah and Idaho. The proclamation signed March 23, eliminated 2,720 acres of patented land from the Idaho National Forest, Idaho.

LANDS.

Listing of Surveyed Lands by Metes and Bounds—

Under the rulings of the Interior Department, it is permissible to list surveyed lands according to legal subdivisions as small as 2½ acres each. It has been brought to the attention of the Forester, however, that it frequently is more practical and in the end less expensive to make a metes and bounds survey than to describe the lands by such small subdivision. The district foresters have, accordingly, been authorized to make metes and bounds listing surveys in such cases, giving the applicant, however, the privilege of choosing the method of description when the examiner believes a metes and bounds survey preferable solely from the applicant's standpoint.

Amendments to Manual: Claims, Settlements, and Administrative Sites—

Attention is called to the amendments to the Manual relating to claims, settlement, and administrative sites, synopsized as follows:

No. 109, which provides that all reports on applications under the act of June 11, 1906, must be accompanied by answers to the questions on Form 107 relative to water-power possibilities.

No. 111, which embodies instructions relative to the exception of strips for highways, and the reservation of rights of way for telephone lines, through tracts to be listed under the act of June 11, 1906.

No. 112, which requires claims examiners to report upon the water possibilities on the tracts involved when submitting reports in claims cases.

No. 120, which provides for notice to the claimant of the date of transmission to the chief of field division, of a report upon his claim, without giving further detail.

No. 121, which authorizes the district forester to proceed with the listing of lands by metes and bounds under the old procedure in case he lacks equipment or the personnel to carry out the cooperative arrangement with the Interior Department with reference to making the official final survey when listing the land.

SERVICE PUBLICATIONS ISSUED.

Circular 82. Hardy Catalpa (revised).
Circular 189. Strength Values for Structural Timbers.
Circular 194. Progress Report on Wood Paving in Minneapolis.
Circular 195. Forest Planting in Northeastern and Lake States.
Circular 203. Assistance to Private Owners in the Practice of Forestry.
Circular 205. Forest Fire Protection under the Weeks Law.
Unnumbered. Paper Pulps from Various Forest Woods.

CUMULATIVE INDEX TO SERVICE NOTES AND ORDERS.

(JULY, 1910–APRIL, 1912.)

[Numbers in parentheses after the month indicate page.]

Act of June 11, 1906, application, conflict of mining claim with; October, 1910 (67).
Adams Dowling King, fined by United States court; January, 1912 (91).
Addresses, report of; July, 1911 (25).
Administrative sites, claims, and settlement; October, 1911 (61).
Atlas folios, correcting; October, 1910 (64).
requests for binding; October, 1910 (64).
legend crayons; October, 1911 (59).
Bill of lading; April, 1912 (122).
Boundaries and areas, changes in; July, 1910 (33); October, 1910 (64); January, 1911 (95); January, 1912 (92); April, 1912 (124).
Business relations, and rules concerning; April, 1911 (129).
Carbons sent for information, omission of initialing on; October, 1910 (64).
Chain-Stadia pattern; April, 1912 (124).
Chaparral, California, regarding nomenclature of; October, 1910 (61).
Claims agreement, revised cooperative; January, 1911 (100).
cases, procedure in the conduct of; July, 1910 (35); October, 1910 (66).
conflict of mining, with a June 11, 1906, application; October, 1910 (67).
indorsement upon final-proof notices; April, 1911 (132).
instructions under cooperative agreement of November 25, 1910; January, 1911 (97).
relinquishment of; October, 1910 (67).
settlement, and administrative sites; October, 1911 (61).
amendments to Manual; April, 1912 (125).
squatter, procedure in; April, 1911 (132).

Code, dates becoming effective; July, 1911 (25).
Constitutionality of National Forest organic and administrative acts; July, 1911 (31, 32).
Conviction and sentence of Frank Kirri; July, 1911 (26).
Correspondence on insects, diseases, and protection from animals; April, 1911 (130).
Correspondence with other bureaus; January, 1911 (102).
Damages assessed against grazing trespass; April, 1911 (128).
for destruction of young growth awarded; October, 1910 (61).
measure of, in innocent timber trespass case; October, 1910 (62).
Dendrological specimens, full data with; October, 1910 (61).
Diagrams and maps; October, 1911 (59).
Easements and special uses; April, 1911 (135).
through National Forests; April, 1912 (120).
Employees killed or injured in forest fires; January, 1911 (96).
Examination of forest homestead applications; July, 1910 (38.)
Express shipments, directions for; April, 1911 (128).
Field Program to be published quarterly; July, 1910 (32); January, 1912 (89).
Filing system for grazing applications and permits; January, 1912 (94).
Final-proof notices and requests; January, 1911 (99).
disposition of; October, 1910 (68).
indorsement upon; April, 1911 (132).
modification in indorsement of; January, 1911 (99).
Fire-killed timber, bond from persons cutting; January, 1912 (93).
sales of; January, 1912 (93).
Fire trespass. (*See* Trespass, fire.)
Fires, forest, employees killed or injured in; January, 1911 (96).
Forage plants, identification of grasses and; July, 1910 (35).
Form 2, revised, to supplant Form 143; July, 1910 (33).
143, supplanted by Form 2, revised; July, 1910 (33).
321, discontinued; July, 1910 (34).
321a, originated; July, 1910 (34).
322, revised; July, 1910 (34).
323, revised; July, 1910 (34).
446, revised edition of; April, 1912 (122).
631, discontinuance of; July, 1911 (34).
861 and 861–G, revised; July, 1910 (32).
979, requisitions for; July, 1910 (34).
Fountain pens at Ogden; October, 1910 (63).
General Order 140 of Secretary of Agriculture; July, 1910 (32).
Grasses and forage plants, identification of; July, 1910 (35).
Grazing applications and permits—filing system; January, 1912 (94).
permits and trespass period; April, 1911 (131).
trespass. (*See* Trespass, grazing.)
Grimaud et al., case of, July, 1911 (31, 32).
Habeas corpus, Joseph J. Jones and Clinton A. Hodges released on writ of; July, 1911 (29).
Homestead applications, examination of forest; July, 1910 (38).
Horse feed, maximum sum for; January, 1911 (96).

Identification of grasses and forage plants; July, 1910 (35).
Illegal occupants, judgment of ouster against; April, 1911 (128).
Inclosures: Occupancy; July, 1911 (34).
Indian allotments; April, 1911 (136).
Initialing, omission of, on carbons sent for information; October, 1910 (64).
Injunction against Telluride Power Co., application for; January, 1911 (93).
Insect infestation, letters on; July, 1910 (34).
Insects, correspondence on; April, 1911 (130).
Interior right-of-way cases, captions in; January, 1912 (94).
Investigative work, new organization of; January, 1912 (92).
Lands, application to list; April, 1911 (133).
condemnation of, for National Forests; January, 1912 (89).
effect of eliminations upon listed; October, 1910 (68).
reconveyed to United States under lieu selection; January, 1911 (102).
relative preference rights to listed; January, 1911 (96).
surveyed, listing by metes and bounds; April, 1912 (125).
valuable for coal; April, 1911 (135).
within abandoned military reservations; April, 1911 (134).
Larceny, case of H. C. Herrington; July, 1911 (30).
A. M. Neal et al.; July, 1911 (29).
J. P. Tuley (Harrison); July, 1911 (27).
Paul Weidenbohm and Henry Gieschen; July, 1911 (26).
Law cases in district 1: October, 1910 (62); January, 1911 (92); July, 1911 (29); October, 1911 (56); January, 1912 (90); April, 1912 (120).
2: October, 1910 (61, 62, 63); January, 1911 (92, 93); July, 1911 (27, 28, 31); January, 1912 (90); April, 1912 (120).
3: October, 1911 (56); January, 1912 (91); April, 1912 (121).
4: October, 1910 (63); July, 1911 (25, 26); October, 1911 (56); January, 1912 (91); April, 1912 (121).
5: January, 1912 (91); April, 1912 (122).
6: July, 1910 (32); January, 1911 (93); April, 1911 (128); October, 1911 (57); January, 1912 (91-92); April, 1912 (122).
Letters, papers to accompany drafts of list; October, 1910 (68).
Secretary, recommending eliminations and release; October, 1911 (58).
Level rod; October, 1911 (58).
Liability act of May 30, 1908, extension of; April, 1912 122).
Library, to increase usefulness of; April, 1911 (131).
Lieu selection, lands reconveyed to United States under; January, 1911 (102).
Light, Fred, case of; July, 1911 (31, 32).
Loose-leaf covers; October, 1911 (59).
Manual, error in; July, 1911 (134).
amendments to; April, 1912 (125).
Maps and surveys; April, 1911 (129).
diagrams; October, 1911 (59).
Meals and lodging; July, 1911 (33).
Mining claim, conflict of, with a June 11, 1906, application; October, 1910 (67).
saloon location on; January, 1911 (92).

National Forest Code, dates becoming effective; July, 1911 (25).
National Forests, changes in boundaries and areas of; July, 1910 (33); October, 1910 (64); January, 1911 (95); April, 1912 (124).
Northern Pacific Ry. Co., verdict against; April, 1911 (128); January, 1912 (92).
Nursery reports; April, 1911 (131).
Paper scales, Forest Service; October, 1911 (58).
Papers to accompany drafts of list letters; October, 1910 (68).
Pay-roll forms, revision of; July, 1910 (33).
Permits, water-power; January, 1911 (96).
Personal conduct, rules concerning; April, 1911 (129).
Photographic notebook, new; October, 1911 (58).
Political activity and political assessments or contributions; January, 1911 (93).
rules concerning; April, 1911 (129).
Preference rights to listed lands; January, 1911 (96).
Preparation of papers, care in; July, 1910 (34).
Proclamations and diagrams, distribution of; October, 1910 (65).
supplies of; October, 1910 (65).
where made; October, 1911 (58).
Procedure, changes in; July, 1911 (33, 34).
Protractor, lookout station; April, 1912 (124).
Ranch property purchased with stock; July, 1911 (34).
Reconnaissance forms; July, 1910 (34).
Refunds in supposed timber-trespass cases; October, 1910 (62).
under act of March 1, 1907; January, 1912 (89).
Reimbursement for maintenance of horse or motor; October, 1911 (57).
Requisitions for Form 979; July, 1910 (34).
Reward, notice of; October, 1910 (69).
Rights of way stipulations; April, 1911 (135).
Roads, excepting strip of land for; April, 1911 (133, 134).
Saloon location, mining claim does not permit; October, 1910 (62).
on mining claim; January, 1911 (92).
School sections, authority to sell timber from unsurveyed; January, 1911 (92).
Settlement, application to list land; April, 1911 (133).
claims, and administrative sites; October, 1911 (61).
closing cases in supervisors' offices; April, 1911 (135).
effect of elimination upon lands listed; October, 1910 (68).
exceptions for roads; April, 1911 (133).
notice to applicant; April, 1911 (134).
lands valuable for coal; April, 1911 (135).
within abandoned military reservations; April, 1911 (134).
Settlers on restored areas; July, 1910 (38).
Signs, making and posting of; October, 1910 (63).
Solicitor, duties of, in connection with Forest Service; July, 1910 (32).
Special uses and easements; April, 1911 (135).
Stadia pattern; October, 1911 (58); April, 1911 124).
State law violation, fined for; October, 1911 (57).

Stations, statement as to power value; April, 1911 (135).
withdrawal under the act of June 25, 1910; April, 1911 (135).
Subpoena, Frank O'Hare fined for ignoring a; January, 1912 (90).
Surveys and maps; April, 1911 (129).
Timber, authority to sell from unsurveyed school sections; January, 1911 (92).
sale; United States intervener; January, 1911 (93).
trespass. (*See* Trespass, timber.)
Transportation requests; July, 1910 (33).
Trespass cases, fire, district 1; October, 1911 (56).
Great Northern R. R. Co., judgment against; January, 1912 (90).
district 2; October, 1910 (62); January, 1911 (93).
by the C., B. & Q. R. R.; January, 1911 (93); January, 1912 (90).
district 3; July, 1911 (30).
district 4; October, 1911 (56).
district 5; January, 1912 (91).
district 6; January, 1911 (93); July, 1911 (26, 27); October, 1911 (57); January, 1912 (91–92).
Corvallis & Eastern R. R. Co., judgment for damages paid; January, 1912 (92).
grazing, district 2; October, 1910 (63); January, 1911 (92); July, 1911 (27, 28).
district 3; July, 1911 (29, 30, 31); October, 1911 (57); January, 1912 (91).
Vanwinkle, J. W., sentenced for; January, 1912 (91).
district 4; October, 1910 (63); July, 1911 (25, 26); January, 1912 (91).
district 6; July, 1910 (32); April, 1911 (128); July, 1911 (27).
constitutionality of National Forests organic and administrative acts; July, 1911 (31, 32); October, 1911 (56, 57).
timber, district 1; July, 1911 (28, 29).
district 2; January (92); July, 1911 (28).
district 3; July, 1911 (30).
measure of damage in innocent; October, 1910 (62).
refunds in supposed; October, 1910 (62).
U. S. *v.* Stack-Gibbs Lumber Co. and Shoshone Lumber Co.; October, 1911 (56).
regulations approved; October, 1911 (61).
Uniform, Forest Service, January, 1911 (96).
Ware for camp use, tin or granite; October, 1910 (63).
Water power, amendment of regulations L–4; July, 1911 (35).
permits; January, 1911 (96).
right to use at administrative site; July, 1911 (27).
Wire, purchase of; January, 1912 (92).

O

W. Mulfor

Issued July 15, 1912.

UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.

HENRY S. GRAVES, Forester.

July Field Program, 1912.

This program of field work and assignments in the Forest Service is issued quarterly on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

OFFICE OF THE FORESTER.

HENRY S. GRAVES, Forester.
ALBERT F. POTTER, Associate Forester.

HERBERT A. SMITH, editor.
FINDLEY BURNS, in charge of technical review.
Assistants in editor's office: BRISTOW ADAMS, DON CARLOS ELLIS, E. R. JACKSON, C. M. BALLARD.
GEORGE B. SUDWORTH, dendrologist; C. D. MELL, assistant dendrologist.
Wood structure studies, W. D. BRUSH, ARTHUR KOEHLER.
Forest distribution, W. H. LAMB, in charge; G. E. WHARTON.
EUGENE S. BRUCE, expert lumberman.
D. D. BRONSON, general inspector.

ACCOUNTS.

Division of Accounts and Disbursements (Forest Service branch).
M. E. FAGAN, chief of office of accounts; E. A. MELZAR, assistant chief.

OPERATION.

JAMES B. ADAMS, assistant forester, in charge; FRANKLIN W. REED, forest inspector; GEORGE G. ANDERSON, administrative assistant.

GEOGRAPHY.—FRED G. PLUMMER, chief.

ATLAS.—G. B. BRUCE.

DRAFTING.—C. A. KOLB.

PHOTOGRAPHY.—E. S. SHIPP.

MAINTENANCE.—GEORGE A. BENTLEY, chief.

SILVICULTURE.

W. B. GREELEY, assistant forester, in charge; EARLE H. CLAPP, forest inspector (in the field); FRANKLIN H. SMITH, statistician in forest products, special detail; Barrington Moore, preparation of forest plans (Quincy, Cal.).

STATE COOPERATION.—J. G. PETERS, chief.

Collaborators, State cooperative fire protection under the Weeks law.—Frank E. Mace, land agent and forest commissioner, Augusta, Me.; E. C. Hirst, State forester, Concord, N. H.; F. H. Billard, forester, New Hampshire Timberland Owners' Association, Berlin, N. H.; A. F. Hawes, State forester, Burlington, Vt.; F. W. Rane, State forester, Boston, Mass.; S. N. Spring, State forester, New Haven, Conn.; C. R. Pettis, superintendent of forests, Albany, N. Y.; C. P. Wilber, State fire warden, Trenton, N. J.; F. W. Besley, State forester, Baltimore, Md.; E. M. Griffith, State forester, Madison, Wis.; Wm. T. Cox, State forester, St. Paul, Minn.; F. A. Elliott, State forester, Salem, Oreg.

State reports.—J. H. Foster and L. S. Murphy.

SILVICS.—RAPHAEL ZON, chief (in the field); S. T. DANA, assistant chief (in the field); G. N. Lamb, acting, in charge.

Studies—E. H. Frothingham, W. D. Sterrett, C. R. Tillotson (Carson, Wash.), G. N. Lamb, W. R. Mattoon.

COMPUTING.—W. B. BARROWS.

LIBRARY.—MISS H. E. STOCKBRIDGE.

COMPILATION.—MISS E. B. LEECH.

FOREST MANAGEMENT IN THE EAST.—A. W. WILLIAMSON, acting in charge.

GRAZING.

A. F. POTTER, associate forester, in charge; L. F. KNEIPP, assistant forester; WILL C. BARNES, inspector of grazing.

Grazing studies (in cooperation with F. V. Coville, botanist, Bureau of Plant Industry).—James T. Jardine, inspector of grazing, in charge, Ogden, Utah.

Forage investigations.—Arthur T. Sampson, Ephraim, Utah, and William A. Dayton, Sisson, Cal., plant ecologists.

Range reconnaissance.—Charles E. Fleming, Wallowa, Oreg.; Lynn H. Douglas, Laramie, Wyo.; Robert R. Hill, Flagstaff, Ariz.; Alfred E. Aldous, Ogden, Utah.

LANDS.

JAMES B. ADAMS, assistant forester, in charge; O. C. MERRILL, chief engineer; F. H. FOWLER, engineer.

OCCUPANCY.—CHARLES H. SQUIRE, in charge.

CLAIMS.—JAMES I. PARKER, in charge.

PRODUCTS.

McGARVEY CLINE, in charge, Madison, Wis.

FOREST PRODUCTS LABORATORY (in cooperation with the University of Wisconsin, Madison, Wis.).—McGARVEY CLINE, director; HOWARD F. WEISS, assistant director.

Cooperation.—CARLILE P. WINSLOW.

Design of laboratory equipment.—ROLF THELEN.

Review of results.—WM. H. KEMPFER, H. S. BETTS.

CHEMISTRY AND DISTILLATION.—L. F. HAWLEY, in charge; E. Bateman, A. W. Schorger, F. W. Kressman, R. C. Palmer, Jacob M. Johlin, jr.

ENGINEERING.—A. L. HEIM, in charge; Frank J. Hallauer, James O. Bixby, O. M. Sutherland.

MAINTENANCE. ———

PULP AND PAPER.—H. E. SURFACE, in charge; Robert E. Cooper, Sidney D. Wells, Charles S. Gwinn.

TIMBER PHYSICS.—H. D. TIEMANN, in charge; Frederick Dunlap, Eloise Gerry, Ollison Craig, C. T. Barnum, M. E. Diemer.

TIMBER TESTS.—JOHN A. NEWLIN, in charge; A. K. Armstrong, Thomas R. C. Wilson.

WOOD PRESERVATION.—FRANCIS M. BOND, in charge; E. W. Peters, Clyde H. Teesdale, James D. MacLean.

GROUND-WOOD-PULP LABORATORY, Wausau, Wis.—JOHN H. THICKENS, in charge; Sidney E. Lunak, G. C. McNaughton.

PATHOLOGY (in cooperation with the Bureau of Plant Industry).—C. J. HUMPHREY, in charge; M. C. Jensen.

WOOD UTILIZATION AND EASTERN PRODUCTS DISTRICT.—O. T. SWAN, in charge, Washington, D. C.; Wood Consumption Studies, R. E. Simmons, Hu Maxwell, John T. Harris, C. W. Dunning, Clark W. Gould; Wholesale Lumber Prices, Jesse C. Nellis; Production of Lumber and Forest Products, A. H. Pierson.

ACQUISITION OF LAND UNDER THE WEEKS LAW.

WM. L. HALL, assistant forester, in charge, Washington, D. C.

LUMBERMEN'S EXAMINATIONS.—D. W. Adams and W. W. Ashe.

EXAMINATION OF LANDS.—K. W. WOODWARD, in charge, Washington, D. C.; White Mountain area, E. D. Fletcher in charge; J. S. J. Benedict, D. W. Martin, S. L. Wolfe, and R. J. Noyes, forest assistants; Massanutten, Potomac, and Youghiogheny areas, E. D. Clark, forest assistant, in charge; S. H. Thompson, H. M. Sears, H. S. Davis, forest assistants; White Top area, C. Macfarlane, forest assistant,

in charge; Unaka, Boone, and Yadkin areas, V. Rhoades, forest examiner, in charge; L. Crowell, forest examiner, J. H. Fahrenbach, E. P. Bushnell, K. Schmitt, and R. P. Holdsworth, forest assistants; Nantahala area, O. D. Ingall, forest assistant, in charge; W. R. Barbour and E. M. Brunner, forest assistants; Savannah area, R. C. Hall, forest assistant, in charge; Shenandoah area, S. H. Marsh, forest assistant, in charge; Monongahela area, W. A. Hopson, forest assistant, in charge; Mount Mitchell area, L. L. Bishop, forest assistant, in charge; Pisgah area, J. J. Fritz, forest assistant, in charge; H. G. Spahr, forest assistant.

SURVEY OF LANDS.—R. DIEFFENBACH, forest examiner, acting in charge; Mount Mitchell area, D. M. Gibson; Nantahala area, J. L. Pritchard, M. S. Davis, and J. Denman; Georgia area, E. V. Clark; White Mountain area, F. A. Gardner and L. C. Marshall.

LAW.—Office of the Solicitor (Forest Service branch). A. S. LANIER, assistant to the solicitor, American Bank Building, Richmond, Va.

Record examiners: Geo. H. Wright, Asheville, N. C.; M. B. Stickley, Franklin, N. C.; Geo. E. Taylor, Bristol, Tenn.; Cameron F. MacRae, Bryson City, N. C.; A. Craig, Maryville, Tenn.; A. S. Lanier, Richmond, Va.; Clarence E. Miles, Lancaster, N. H.

DISTRICT 1.

Montana, northeastern Washington, northern Idaho, northwestern South Dakota, northern Michigan, northern Minnesota, and southwestern North Dakota. Office, Hammond Block, Missoula, Mont.

F. A. SILCOX, district forester; E. W. KRAMER, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). W. C. HENDERSON, assistant to the solicitor, in charge; HAROLD H. CLARKE, assistant to the solicitor.

ACCOUNTS.—JOHN A. URBANOWICZ, district fiscal agent.

OPERATION.—J. F. PRESTON, assistant district forester; R. B. ADAMS, superintendent of telephone construction.

MAINTENANCE.—R. J. MOORE.

SILVICULTURE.—R. Y. STUART, assistant district forester; D. T. MASON, assistant district forester.

PLANTING.—H. H. FARQUHAR; EDGAR F. WHITE, forest assistant.

SILVICS.—F. I. ROCKWELL; A. O. BENSON, forest assistant.

Studies, C. N. Whitney, Anaconda, Mont.

Josef Brunner, field agent, Bureau of Entomology, Columbia Falls, Mont.

James R. Weir, consulting pathologist, Missoula, Mont.

GRAZING.—C. H. ADAMS, assistant district forester.

LANDS.—R. H. RUTLEDGE, assistant district forester; JOHN D. JONES, assistant.

EXPERIMENT STATION.

Priest River.—DONALD R. BREWSTER, Priest River, Idaho.

NATIONAL FORESTS.

IDAHO.

Clearwater.—CHARLES A. FISHER, forest supervisor, Orofino (WU-Am); Alfred B. Hastings, forest assistant.

Coeur d'Alene.—ROSCOE HAINES, acting forest supervisor, Coeur d'Alene (WU-Am); Joseph B. Halm, deputy forest supervisor; W. W. Morris and Donald Bruce, forest assistants.

Kaniksu.—See Washington.

Nezperce.—GEORGE V. RING, forest supervisor, Grangeville (WU-Am): J. Arthur Brown, deputy forest supervisor.

Pend Oreille.—J. E. BARTON, forest supervisor, Sandpoint (WU-Am, N, W); Charles F. Howell, deputy forest supervisor: James R. Gillis, forest assistant.

Selway.—FRANK A. FENN, forest supervisor, Kooskia (WU-N).

St. Joe.—THOMAS C. SPAULDING, forest supervisor, St. Maries (Continental-WF); Edward A. Holcomb, deputy forest supervisor; Wilford B. Willey, and Richard C. Eggleston, forest assistants; C. H. Gregory, lumberman: E. B. Tanner, scaler.

MICHIGAN.

Marquette.
Michigan. —W. B. PIPER, acting forest supervisor, East Tawas (WU-Am).

MINNESOTA.

Minnesota.—G. E. MARSHALL, forest supervisor, Cass Lake (WU-Am, GN).

Superior.—J. A. FITZWATER, forest supervisor, Ely (WU-GN).

MONTANA.

Absaroka.—JOSEPH D. WARNER, forest supervisor, Livingston (WU-Am, N); Warren F. Hale, forest assistant.

Beartooth.—GLEN A. SMITH, forest supervisor, Billings (WU-Am, N); Arthur H. Abbott, deputy forest supervisor; James C. Whitham, forest assistant.

Beaverhead.—C. K. WYMAN, forest supervisor Dillon (WU-Am); George E. Martin, deputy forest supervisor; Charles R. Clark, forest assistant.

Bitterroot.—W. W. WHITE, forest supervisor, Missoula (WU-Am, N); Abbott B. Silva, forest assistant.

Blackfeet.—R. P. MCLAUGHLIN, forest supervisor, Kalispell (WU-Am, GN); David D. Johnson, deputy forest supervisor; J. A. Larsen, forest assistant.

Cabinet.—RALPH H. BUSHNELL, forest supervisor, Thompson Falls (WU-Am N); Claude W. Griffin, deputy forest supervisor.

Custer.—KNOX MCANALLY, forest supervisor, Miles City (WU-Am, N).

Deerlodge.—LEWIS C. STOCKDALE, acting forest supervisor, Anaconda (P-Am, N); C. N. Whitney and John F. Forsythe, forest assistants.

Flathead.—PAGE S. BUNKER, forest supervisor, Kalispell (WU-Am, GN); John H. Clack, deputy forest supervisor; J. L. Cobbs, forest assistant.

Gallatin.—D. T. CONKLING, forest supervisor, Bozeman (WU-Am, N); Samuel R. Hays, deputy forest supervisor.

Helena.—J. B. SEELY, forest supervisor, Helena (WU-Am, N); Lewis T. Morgan, deputy forest supervisor; Waldo D. Barlow and John E. Keach, forest assistants.

Jefferson.—WALLACE S. PERRINE, forest supervisor, Great Falls (WU-Am, N); Wellman Holbrook, deputy forest supervisor.

Kootenai.—DORR SKEELS, forest supervisor, Libby (WU-Am, GN); William A. Raymond, deputy forest supervisor; Webster H. Ransom and William C. Latane, forest assistants.

Lewis and Clark.—SCOTT LEAVITT, forest supervisor, Chouteau (WU via Collins-Am, GN via Collins); A. A. Saunders, forest assistant.

Lolo.—ELERS KOCH, forest supervisor, Missoula (WU, P-Am, N); Reuben P. Prichard, forest assistant.

Madison.—CLIFTON W. HUDSON, forest supervisor, Sheridan (WU-Am, N); E. C. Clifford, deputy forest supervisor.

Missoula.—RUTLEDGE PARKER, forest supervisor, Missoula (WU, P-Am, N); Frederick R. Mason, forest assistant.

Sioux.—See South Dakota.

NORTH DAKOTA.

Dakota.—C. A. BALLINGER, forest supervisor, Camp Crook, S. Dak. (WU via Bellefourche-Am via Bellefourche); Kenneth D. Swan, forest assistant.

SOUTH DAKOTA.

Sioux.—C. A. BALLINGER, forest supervisor, Camp Crook (WU via Bellefourche-Am via Bellefourche); Kenneth D. Swan, forest assistant.

WASHINGTON.

Kaniksu.—M. N. STICKNEY, forest supervisor, Coolin, Idaho (WU via Priest River-Am, GN, Priest River); Meyer H. Wolff, deputy forest supervisor; John C. De Camp and Henry W. de Nancrede, forest assistants.

DISTRICT 2.

Colorado, Wyoming, South Dakota, Nebraska, and western Kansas. Office, Majestic Building, Denver, Colo.

SMITH RILEY, district forester; T. W. NORCROSS, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). GEORGE E. TROWBRIDGE, assistant to the solicitor, in charge; J. F. LAWSON, assistant to the solicitor.

ACCOUNTS.—H. I. LOVING, district fiscal agent.

OPERATION.—FRED W. MORRELL, assistant district forester.

MAINTENANCE.—F. H. CARROLL.

SILVICULTURE.—S. L. MOORE, assistant district forester.

PLANTING.—SEWARD D. SMITH.

SILVICS.—C. G. BATES.

Studies of lumbering costs and market prices, Colorado and Wyoming, J. H. Potts and I. T. Starbuck, Denver, Colo.

Carl Hartley, consulting pathologist, Washington, D. C.

GRAZING.—J. W. NELSON, assistant district forester.

LANDS.—C. J. STAHL, assistant district forester; R. D. Wyatt, assistant.

EXPERIMENT STATIONS.

Fremont.—F. B. NOTESTEIN, Manitou, Colo.; W. D. Hays, assistant.

Wagon Wheel Gap.—PETER KEPLINGER, Wagon Wheel Gap, Colo., and B. C. Kadel, of the Weather Bureau.

NATIONAL FORESTS.

COLORADO.

Arapaho.—ARTHUR M. COOK, forest supervisor, Fraser (WU-Ad); Alva A. Simpson, deputy forest supervisor; Arthur T. Upson and Huber C. Hilton, forest assistants.

Battlement.—JOHN W. LOWELL, Jr., forest supervisor, Collbran (WU-WF, G); George Z. Mason, forest assistant.

Cochetopa.—EUGENE WILLIAMS, forest supervisor, Saguache (WU-G); Charles P. Bliss, forest assistant.

Colorado.—H. A. E. MARSHALL, forest supervisor, Fort Collins (WU-WF); Harold C. Clark, forest assistant.

Durango.—ERNEST W. SHAW, forest supervisor, Durango (WU-G); E. S. Keithley, forest assistant.

Gunnison.—WILLIAM R. KREUTZER, forest supervisor, Gunnison (WU-WF, G), E. C. Berky, deputy forest supervisor; W. H. Mast, forest assistant.

Hayden.—See Wyoming.

Holy Cross.—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU-WF, G); Albert H. Miller, deputy forest supervisor; George R. Morrison, forest assistant.

La Sal.—See Utah, District 4.

Leadville.—THEODORE SHOEMAKER, forest supervisor, Leadville (WU, P-WF, G); R. E. Clark, deputy forest supervisor; J. E. Martin, forest assistant.

Montezuma.—RESS PHILLIPS, forest supervisor, Mancos (WU-G); Gordon Parker, forest assistant.

Pike.—C. W. FITZGERALD, forest supervisor, Denver (WU, P-Ad, Am, G, US, WF); George A. Duthie, deputy forest supervisor; W. I. Hutchinson, forest assistant; Monument Nursery, Henry G. Reinsch, forest expert; W. Schrader, forest planting assistant, Monument.

Rio Grande.—A. L. SWEITZER, forest supervisor, Monte Vista (WU-G); Walter F. Bowers, deputy forest supervisor; Jay Higgins, forest assistant.

Routt.—J. H. RATLIFF, forest supervisor, Steamboat Springs (WU-Ad); Ray Peck, deputy forest supervisor; P. J. Paxton, forest assistant.

San Isabel.—J. N. LANGWORTHY, forest supervisor, Westcliffe (WU-G); M. B. Willey, deputy forest supervisor; Albin G. Hamel, forest assistant.

San Juan.—G. P. BARD, forest supervisor, Pagosa Springs (WU-G); A. F. C. Hoffman, forest assistant.

Sopris.—JOHN MCLAREN, forest supervisor, Aspen (WU-WF, G); W. G. Baxter, forest assistant.

Uncompahgre.—HOWARD S. BUSHNELL, forest supervisor, Delta (WU-G); L. E. Cooper, deputy forest supervisor; J. H. Ramskill, forest assistant.

White River.—JAMES A. BLAIR, forest supervisor, Meeker (WU-WF, G); Crosby A. Hoar, forest assistant.

KANSAS.

Kansas.—B. R. H. D'ALLEMAND, forest supervisor, Garden City (WU, P-WF); Garden City Nursery.

NEBRASKA.

Nebraska.—R. G. PIERCE, acting forest supervisor, Halsey (WU-Ad); Fred R. Johnson, forest assistant; Halsey Nursery.

SOUTH DAKOTA.

Black Hills.—PAUL D. KELLETER, forest supervisor, Deadwood (WU-Ad, Am); William Wiehe, deputy forest supervisor; Percy T. Smith, forest assistant.

Harney.—R. P. IMES, forest supervisor, Custer (WU-Ad).

WYOMING.

Bighorn.—E. N. KAVANAGH, forest supervisor, Sheridan (WU-Ad); Andrew G. Stockwell, deputy forest supervisor.

Bonneville.—H. EARL FRENCH, forest supervisor, Dubois (WU-Am).

Bridger.—H. C. HALL, forest supervisor, Pinedale (WU-Am).

Hayden.—JAMES BLACKHALL, forest supervisor, Encampment (WU, P-Am); Roy S. Wheeler, forest assistant.

Medicine Bow.—C. M. GRANGER, forest supervisor, Laramie (WU, P-Am); R. A. Stretch, deputy forest supervisor; D. S. Jeffers, forest assistant.

Shoshone.—R. W. ALLEN, forest supervisor, Cody (WU-Ad); Fred B. Agee, deputy forest supervisor; Myron W. Thompson, forest assistant.

Sundance.—LOUIS KNOWLES, forest supervisor, Sundance (WU-Ad, Am).

Washakie.—C. G. POOLE, forest supervisor, Lander (WU-Am).

DISTRICT 3.

Arizona, Arkansas, Florida, New Mexico, and Oklahoma. Office, Strickler-Luna Building, Albuquerque, N. Mex.

A. C. RINGLAND, district forester; T. W. NORCROSS, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). D. F. MCGOWAN, assistant to the solicitor, in charge; J. O. SETH, assistant to the solicitor.

ACCOUNTS.—J. J. DUFFY, district fiscal agent.

OPERATION.—A. O. WAHA, assistant district forester; A. S. PECK, assistant district forester.

MAINTENANCE.—H. B. HAMMOND.

SILVICULTURE.—R. L. ROGERS, forest examiner; ATHOL A. WYNNE, lumberman; G. A. PEARSON, in charge forest investigations; JOHN H. ALLISON, in charge reconnaissance.

GRAZING.—JOHN KERR, assistant district forester; R. R. HILL, in charge reconnaissance.

LANDS.—FRANK C. POOLER, assistant district forester; J. F. MULLEN, land classification.

EXPERIMENT STATION.

Fort Valley.—G. A. PEARSON, Flagstaff, Ariz.

NATIONAL FORESTS.

ARIZONA.

Apache.—JOHN D. GUTHRIE, forest supervisor, Springerville (WU, P-WF); Frederick Winn, deputy forest supervisor; Clifford W. McKibbin, reconnaissance.

Chiricahua.—A. H. ZACHAU, forest supervisor, Portal (WU, P-WF); Frank J. Mosher, forest assistant.

Coconino.—WILLARD M. DRAKE, forest supervisor, Flagstaff (WU, P-WF); J. C. Kircher, deputy forest supervisor; Quincy Randles, forest assistant.

Coronado.—ROBERT J. SELKIRK, forest supervisor, Tucson (WU, P-WF).

Crook.—T. T. SWIFT, forest supervisor, Safford (WU-WF).

Prescott.—C. H. HINDERER, forest supervisor, Prescott (WU-WF); J. C. McNelty, deputy forest supervisor.

Sitgreaves.—CHAS. H. JENNINGS, acting forest supervisor, Snowflake (WU, P-WF).

Tonto.—R. G. WILLSON, forest supervisor, Roosevelt (WU-WF).

Tusayan.—STANTON G. SMITH, forest supervisor, Williams (WU, P-WF); Harold Greene, deputy forest supervisor; Gordon T. Backus, forest assistant.

Zuni.—See New Mexico.

ARKANSAS.

Arkansas.—S. A. CHAPPELL, forest supervisor, Hot Springs (WU, P-WF, P); C. J. Heller, forest assistant.

Ozark.—FRANCIS KIEFER, forest supervisor, Harrison (WU-WF); Ralph C. Huey, deputy forest supervisor; L. L. Janes, forest assistant.

FLORIDA.

Florida.—I. F. ELDREDGE, forest supervisor, Camp Pinchot, Garniers (WU, P via Pensacola); W. F. Hill, deputy forest supervisor; John W. Spencer, forest assistant.

NEW MEXICO.

Alamo.—R. F. BALTHIS, forest supervisor, Cloudcroft (WU, P-WF); Thomas E. McCullough, forest assistant.

Carson.—ALDO LEOPOLD, acting forest supervisor, Tres Piedras (WU-G); Ira T. Yarnall, forest assistant; Raymond E. Marsh, reconnaissance.

Chiricahua.—See Arizona.

Datil.—W. H. GODDARD, forest supervisor, Magdalena (WU, P-WF); Robert L. Deering, deputy forest supervisor; H. Basil Wales, forest assistant.

Gila.—DON P. JOHNSTON, forest supervisor, Silver City (WU, P-WF); Ausburn H. Douglas, deputy forest supervisor; Herman Krauch, forest assistant; Chas. H. Kissam, forest agent; P. P. Pitchlynn, reconnaissance; Fort Bayard Nursery, H. C. Turner, forest planting assistant.

Jemez.—FRANK E. ANDREWS, forest supervisor, Santa Fe (WU, P-WF); B. M. Thomas, deputy forest supervisor; G. C. Morbeck, reconnaissance.

Lincoln.—J. A. KINNEY, forest supervisor, Capitan (WU, P-WF).

Manzano.—HUGO G. CALKINS, forest supervisor, Albuquerque (WU, P-WF).

Pecos.—THOS. R. STEWART, forest supervisor, Cowles (WU, P-WF via Glorieta); Las Gallinas Nursery, H. D. Burrall, forest planting assistant.

Zuni.—HUGH G. CALKINS, forest supervisor, Albuquerque (WU, P-WF).

OKLAHOMA.

Wichita.—FRANK RUSH, game warden, in charge, Cache (WU-WF).

DISTRICT 4.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Forest Service Building, Ogden, Utah.

E. A. SHERMAN, district forester; J. P. MARTIN, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). R. F. FEAGANS, assistant to the Solicitor, in charge.

ACCOUNTS.—Q. R. CRAFT, district fiscal agent.

OPERATION.—A. C. MCCAIN, assistant district forester.

MAINTENANCE.—FELIX T. MOORE.

BOUNDARIES.—R. V. R. REYNOLDS.

SILVICULTURE.—O. M. BUTLER, assistant district forester: D. F. SEERY, lumberman.

PLANTING.—J. M. FETHEROLF.

SILVICS.—E. R. HODSON.

RECONNAISSANCE (special details).—Fishlake, D. A. Arrivee, forest assistant; Ashley, D. M. Lang, deputy forest supervisor; Targhee, S. S. Stewart, forest assistant; Boise, G. B. McDonald, forest assistant.

GRAZING.—HOMER E. FENN, assistant district forester.

LANDS.—T. C. HOYT, assistant district forester; R. E. GERY, assistant.

SUPPLY DEPOT.—A. M. SMITH, property clerk.

PROPERTY AUDIT.—J. G. FALCK, property auditor.

EXPERIMENT STATION.

Utah.—FORMAN T. MCLEAN, Ephraim, Utah.

NATIONAL FORESTS.

ARIZONA.

Dixie.—See Utah.

Kaibab.—JAMES L. PELTON, forest supervisor, Kanab, Utah (WU-WF).

IDAHO.

Boise.—E. GRANDJEAN, forest supervisor, Boise (WU-Am); M. S. Benedict, deputy forest supervisor; Dana Parkinson, forest assistant.

Cache.—See Utah.

Caribou.—G. G. BENTZ, forest supervisor, Montpelier (WU-Am).

Challis.—DAVID LAING, forest supervisor, Challis (WU-Am).

Idaho.—HERBERT GRAFF, forest supervisor, McCall (WU-P); Hubert C. Williams, forest assistant.

Lemhi.—C. I. HUDDLE, forest supervisor, Mackay (WU-Am); S. B. Arthur, deputy forest supervisor.

Minidoka.—WILLIAM MCCOY, forest supervisor, Oakley (WU-Am).

Palisade.—FRANK J. RYDER, forest supervisor, St. Anthony (WU-Am); Lucas W. Hastings, deputy forest supervisor.

Payette.—GUY B. MAINS, forest supervisor, Emmett (WU-Am); Lawrence J. Phelan, deputy forest supervisor; Lee O. Miles, forest assistant.

Pocatello.—J. F. BRUINS, forest supervisor, Pocatello (WU-Am); Pocatello Nursery, Arthur P. Say, forest ranger.

Salmon.—ROYAL F. MATHIAS, forest supervisor, Salmon (WU-Am); John A. Pearson, deputy forest supervisor; Herman Work, forest assistant.

Sawtooth.—C. N. WOODS, forest supervisor, Hailey (WU-Am); Samuel B. Locke, deputy forest supervisor.

Targhee.—CHESTER B. MORSE, forest supervisor, St. Anthony (WU-Am); Charles A. Beam, deputy forest supervisor.

Weiser.—J. B. LAFFERTY, forest supervisor, Weiser (WU-Am); W. M. Campbell, deputy forest supervisor; A. E. Oman, forest assistant.

NEVADA.

Humboldt.—C. SYDNEY TREMEWAN, forest supervisor, Elko (WU-WF).

Moapa.—THOMAS J. COLLINS, forest supervisor, Austin (WU-Am).

Nevada.—GEO. C. THOMPSON, acting forest supervisor, Ely (WU-WF).

Ruby.—JAMES M. RYAN, forest supervisor, Lamoille (WU-WF).

Santa Rosa.—W. W. BLAKESLEE, forest supervisor, Paradise.

Toiyabe.—THOMAS J. COLLINS, forest supervisor, Austin (WU, P-WF).

UTAH.

Ashley.—W. M. ANDERSON, forest supervisor, Vernal (WU-WF); Lester E. Hitchcock, forest assistant.

Cache.—CLINTON G. SMITH, forest supervisor, Logan (WU-Am); J. W. Humphrey, deputy forest supervisor; E. C. Shepard, forest assistant.

Dixie.—JOHN RAPHAEL, forest supervisor, St. George (WU-WF).

Fillmore.—WM. HURST, forest supervisor, Beaver (WU-WF).

Fishlake.—CARL B. ARENTSON, forest supervisor, Salina (WU-WF).

La Sal.—HENRY A. BERGH, forest supervisor, Moab (WU-WF).

Manti.—A. W. JENSEN, forest supervisor, Ephraim (WU-WF); Ernest Winkler, deputy forest supervisor; F. T. McLean, deputy forest supervisor.

Minidoka.—See Idaho.

Nebo.—DAN S. PACK, forest supervisor, Nephi (WU-WF).

Pocatello.—See Idaho.

Powell.—GEO. H. BARNEY, forest supervisor, Escalante (WU-WF).

Sevier.—O. C. SNOW, forest supervisor, Panguitch (WU-WF).

Uinta.—W. I. PACK, forest supervisor, Provo (WU-WF); J. Carl Allred, deputy forest supervisor; Nils B. Eckbo, forest examiner; Uinta Nursery, Asa L. Brower, forest assistant.

Wasatch.—E. H. CLARKE, forest supervisor, Salt Lake City (WU, P-Am, WF); Wasatch Nursery, N. J. Fetherolf, forest planting assistant.

WYOMING.

Ashley.—See Utah.

Caribou.—See Idaho.

Palisade.—See Idaho.

Targhee.—See Idaho.

Teton.—R. E. MILLER, forest supervisor, Jackson (WU-Am); H. B. Maris, forest assistant.

Wyoming.—JAMES E. JEWELL, forest supervisor, Afton (WU-Am); John E. Ingram, forest assistant.

DISTRICT 5.

California and Southwestern Nevada. Office, First National Bank Building, San Francisco, Cal.

COERT DUBOIS, district forester; WALTER L. HUBER, district engineer; J. LEROY MATHIAS, assistant to district engineer; CLARENCE WILEY, inspector of records.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge; MAURY CURTIS, assistant to the solicitor.

ACCOUNTS.—F. C. THOMPSON, district fiscal agent.

OPERATION.—ROY HEADLEY, assistant district forester.

MAINTENANCE.—F. H. SMITH.

SILVICULTURE.—T. D. WOODBURY, assistant district forester; SWIFT BERRY, forest assistant.

SILVICS.—J. A. MITCHELL, forest assistant.

E. P. Meinecke, consulting pathologist, San Francisco, Cal.

GRAZING.—JOHN H. HATTON, assistant district forester.

LANDS.—L. A. BARRETT, assistant district forester.

PRODUCTS.—C. STOWELL SMITH, assistant district forester, in charge, C. A Kupfer, forest assistant; Percy R. Hicks, engineer in wood preservation; Geo. M. Hunt, assistant chemist in forest products, San Francisco, Cal.

EXPERIMENT STATION.

Plumas.—HAROLD H. GREENAMYRE, Quincy, Cal.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P-WF); Jesse W. Hough, forest assistant, San Bernardino; Serope Y. Parney, forest planting assistant, Redlands.

California.—D. P. GODWIN, forest supervisor, Willows (P-WF); A. W. Bartlett, deputy forest supervisor; S. W. Strothman, forest assistant.

Cleveland.—H. N. WHEELER, forest supervisor, San Diego (WU, P-WF).

Eldorado.—EVAN W. KELLEY, forest supervisor, Placerville (WU-WF); George W. Lyons, forest assistant.

Inyo.—A. H. HOGUE, forest supervisor, Bishop (WU-WF).

Kern.—W. J. RUSHING, forest supervisor, Bakersfield (WU-WF); Jas. O. Morrow, deputy forest supervisor; Neal T. Childs, forest assistant.

Klamath.—W. B. RIDER, forest supervisor, Yreka (WU-WF); J. R. Hall, deputy forest supervisor; Shirley W. Allen and Douglas K. Noyes, forest assistants.

Lassen.—L. A. H. KLING, forest supervisor, Red Bluff (P-WF); R. H. Boerker, forest assistant.

Modoc.—C. E. RACHFORD, forest supervisor, Alturas (P-WF); Vernon L. Bonner, deputy forest supervisor; Belknap C. Goldsmith, forest assistant.

Mono.—See Nevada.

Monterey.—N. H. SLOANE, acting forest supervisor, Arbolado (WU, Monterey-WF, Monterey).

Plumas.—D. N. ROGERS, forest supervisor, Quincy (WU, Keddie, Cal.-G); W. G. Durbin, deputy forest supervisor; R. S. Maddox and George R. Orr, forest assistants.

Santa Barbara.—W. M. SLOSSON, forest supervisor, Santa Barbara (P-WF); H. G. Merrill, deputy forest supervisor; W. M. Moore, forest assistant.

Sequoia.—ALLAN B. PATTERSON, forest supervisor, Hot Springs, Tulare County (WU via Ducor-WF); W. C. Burton, deputy forest supervisor; S. W. Wynne, forest assistant.

Shasta.—R. F. HAMMATT, forest supervisor, Sisson (P-WF); M. R. Tillotson, deputy forest supervisor; Stewart B. Show and Edward I. Kotok, forest assistants.

Sierra.—P. G. REDINGTON, forest supervisor, Northfork (WU via Friant-WF, Friant); M. A. Benedict, deputy forest supervisor; Ernest G. Dudley and Cary Hill, forest assistants; J. C. Elliott, C. H. Ensign, reconnaissance.

Stanislaus.—R. W. AYRES, forest supervisor, Sonora (WU-WF); T. C. West, deputy forest supervisor; J. V. Wulff and Louis T. Larsen, forest assistants; Patrick Kennedy, reconnaissance.

Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU-WF); M. B. Pratt, deputy forest supervisor; K. Mills and Reese W. Taylor, forest assistants.
Trinity.—W. A. HUESTIS, forest supervisor, Weaverville (WU-WF); J. D. Coffman, deputy forest supervisor; Ernst V. Jotter and Howard DeForest, forest assistants.

NEVADA.

Eldorado.—See California.
Inyo.—See California.
Mono.—WM. M. MAULE, forest supervisor, Gardnerville (WU-WF).
Tahoe.—See California.

DISTRICT 6.

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

GEO. H. CECIL, district forester; W. E. HERRING, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge; EARL C. ARNOLD, assistant to the solicitor.

ACCOUNTS.—A. H. COUSINS, district fiscal agent.

OPERATION.—C. H. FLORY, assistant district forester.

MAINTENANCE.—SHIRLEY BUCK.

SILVICULTURE.—F. E. AMES, assistant district forester; C. S. JUDD, assistant district forester; M. L. MERRITT, reconnaissance; W. H. GIBBONS, investigation of logging costs; W. T. ANDREWS, lumberman; EDWIN C. ERICKSON, scaler.

PLANTING.—J. F. KÜMMEL.

SILVICS.—T. T. MUNGER.

Studies, E. J. Hanzlik, Max Rothkugel, Portland.

GRAZING.—T. P. MACKENZIE, assistant district forester.

LANDS.—C. J. BUCK, assistant district forester; G. F. MEAD, examiner; Walter M. Stephen, mineral examiner.

PRODUCTS.—J. B. KNAPP, assistant district forester, in charge; H. B. Oakleaf, Portland; O. P. M. Goss, C. W. Zimmerman, H. P. Wyckoff, Dutton Knapp, Seattle, Wash.

NATIONAL FORESTS.

ALASKA.

Chugach.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU-AP, Am); Thos. M. Hunt, deputy forest supervisor; Bruce Hoffman, forest assistant.
Tongass.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU-AP, Am).

CALIFORNIA.

Crater.—See Oregon.
Siskiyou.—See Oregon.

OREGON.

Cascade.—C. R. SEITZ, forest supervisor, Eugene (WU, P-WF).
Crater.—M. L. ERICKSON, forest supervisor, Medford (WU, P-WF); S. S. Swenning, deputy forest supervisor; H. D. Foster and William E. White, forest assistants.

Deschutes.—J. Roy Harvey, forest supervisor, Bend (WU, PT & T-Ad via Opal City, GN via Opal City); E. B. Starr, forest assistant.

Fremont.—Gilbert D. Brown, forest supervisor, Lakeview (WU via Reno, Nev.-WF); Norman G. Jacobson, forest assistant; Nelson J. Billings, grazing assistant.

Klamath.—See California.

Malheur.—Cy. J. Bingham, forest supervisor, John Day (WU via Baker City-Am, WF via Baker City); D. B. Reynolds, deputy forest supervisor; Robie M. Evans, forest assistant.

Minam.—H. W. Harris, forest supervisor, Wallowa (WU-Am); Ephraim Barnes, deputy forest supervisor.

Ochoco.—Homer Ross, forest supervisor, Prineville (PT & T-Am); Allen Hodgson, deputy forest supervisor.

Oregon.—T. H. Sherrard, forest supervisor, Portland (WU, P-Am, WF, N); Ralph S. Shelley, deputy forest supervisor; W. B. Osborne, forest assistant.

Paulina.—W. W. Cryder, forest supervisor, Crescent (WU, PT & T-Ad, GN via Opal City); Arthur Kerr, forest assistant.

Santiam.—N. F. MacDuff, forest supervisor, Albany (WU-WF).

Siskiyou.—R. L. Fromme, forest supervisor, Grants Pass (WU, P-WF); H. Haefner, forest assistant.

Siuslaw.—A. E. Cohoon, forest supervisor, Eugene (WU, P-WF); David E. Fitton, deputy forest supervisor.

Umatilla.—Hugh B. Rankin, forest supervisor, Heppner (WU-AM); G. A. Bright, forest assistant.

Umpqua.—S. C. Bartrum, forest supervisor, Roseburg (WU, P-WF); Arthur Kerr, forest assistant.

Wallowa.—H. W. Harris, forest supervisor, Wallowa (WU-Am).

Wenaha.—See Washington.

Whitman.—Henry Ireland, forest supervisor, Sumpter (WU via Baker City-Am, WF via Baker City); E. H. McDaniels, deputy forest supervisor; Harold P. Gilkey and B. Frank Heintzleman, forest assistants.

WASHINGTON.

Chelan.—G. W. Milham, forest supervisor, Chelan (PT & T-Am, GN via Wenatchee).

Columbia.—H. O. Stabler, forest supervisor, Portland, Oreg. (WU, P-Am, WF, N); W. W. G. Hastings, deputy forest supervisor; A. R. Wilcox, Lage Wernstedt, and C. P. Willis, forest assistants.

Colville.—C. C. Reid, forest supervisor, Republic (WU, P-Am, GN); F. W. Cleator, deputy forest supervisor; Edward W. Headsten and Lawrence Pagter, forest assistants.

Okanogan.—H. M. Hale, forest supervisor, Okanogan; V. V. Harpham, deputy forest supervisor; Herman M. Johnson, forest assistant.

Olympic.—P. S. Lovejoy, forest supervisor, Olympia (WU-Am, GN, N); A. A. Parker, deputy forest supervisor.

Rainier.—G. F. Allen, forest supervisor, Tacoma (WU, P-Am, N); P. T. Harris, deputy forest supervisor.

Snoqualmie.—B. P. KIRKLAND, forest supervisor, Seattle (WU, P-N, GN, WF); Lewis A. Treen, jr., deputy forest supervisor; Walter H. Leve and Alexander G. Jackson, forest assistants.

Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P-Am, GN, N); F. H. Brundage, deputy forest supervisor.

Wenaha.—J. M. SCHMITZ, forest supervisor, Walla Walla (WU-Am, N); H. M. Coan, forest assistant.

Wenatchee.—A. H. SYLVESTER, forest supervisor, Leavenworth (WU-Am, GN); E. J. Fenby, forest assistant.

SERVICE CHANGES.

APPOINTED.

SILVICULTURE.—Silvics: Wm. H. Kenety, forest assistant.

PRODUCTS.—Laboratory: Estelle Louise Jensen, xylotomist; Melvin E. Diemer, assistant chemist in forest products.

APPALACHIAN.—Forest assistants: Ralph C. Staebner, Robert J. Noyes, John H. Keyes, Wm. R. Barbour, Robert P. Holdsworth, E. Murray Bruner, Karl Schmitt, Harold G. Spahr, Harry S. Davis, Stanley L. Wolfe, Harold M. Sears. Examiners of surveys: David M. Gibson, James Denman.

DISTRICT 1.—Operation: Forest assistants, Carl M. Stevens, William W. Bennett, Robert C. St. Clair, John C. Ketridge, and Justin K. Dwinelle; assistant forest rangers, Wesley A. D'Ewart, Absaroka; Arthur M. Keas, John W. Long, Philip Neff, William G. Newbury, Frederick W. Schumacher, and Carl H. Siria, Beaverhead; Nathan J. Hayes and Stephen St. J. Malven, Deerlodge; Lester L. Davison and Joe D. Morgan, Gallatin; Fred H. Betts, Helena; James B. Yule, Jefferson; Ray O. Bullerdick, Madison; Harry Lee Baker, Michigan; Daniel M. Conner and Lewis G. Nichols, Missoula; Fritjhof J. Lundstrom and William P. Hillman, Pend Oreille; Alexander M. Brebner, Charles F. McGillivray, Alfred D. Neely, and Elmer A. O'Callaghan, St. Joe; Henry W. de Nancrede, forest assistant, Kaniksu; Mayme L. Schmidt, clerk (stenographer and typewriter), Clearwater; William L. Lay, forest clerk, Custer; Lula T. Wools, forest clerk, Deerlodge; Evalyn Eddy, clerk (stenographer and typewriter), St. Joe. District office: Clerks (stenographers and typewriters), Lottie I. Brower, Irma L. Lambrecht, and Lelah Marquette. Silviculture: F. E. Thieme, surveyor.

DISTRICT 2.—District office: Robert E. Pratt, land examiner; Edith G. Kiene and Fanny A. Reed, clerks (stenographers and typewriters). Operation: Gustave H. Gleitsmann, clerk (stenographer and typewriter), Bonneville; Ida C. von Rohr, clerk (stenographer and typewriter), Harney; Teresa V. Fackerell, clerk (stenographer and typewriter), Durango; assistant forest rangers, William M. Leahy, Arapaho; Henry C. Langston, Battlement; Charles A. Davis, Bighorn; Neil Campbell and Chas. W. Kiel, Durango; Max Barginske and Jacob J. Ellenberger, Hayden; John L. Chase, Medicine Bow; Perry Craig and Geo. D. Criley, Rio Grande; John W. Wright, San Isabel; Joseph B. Hull, Sopris; Louis A. Hahn, White River.

District 3.—Operation: Assistant forest rangers, Ernest R. Patterson, Apache; Chas. H. Kissam, Gila; Hugh R. Moore, Ozark; Clark A. Gingery, Prescott; Paul E. Millar, Tusayan; Florence V. Herald, clerk (stenographer and typewriter), Tusayan; Earl G. Fogelgren, forest clerk, Coconino; George L. Leboeuf, forest clerk, Crook; Flora P. Shinn, draftsman (copyist-topographic) district office. Silviculture: Assistant forest rangers, Albert J. Connell and William P. Lawson, Gila.

District 4.—Operation: Assistant forest rangers, Archer Huff, Ashley; W. Douglas Hood, Boise; Merritt N. Pack, jr., Cache; Marion T. Johnson and Alfred C. Toland, Caribou; John J. Boyle and Lee Roy Tracht, Challis; Arthur Huff, Dixie; Forrest R. Castle and Paul Schulze, Humboldt; Wilford W. Boren and William H. Kershaw, La Sal; Charles A. Chitwood, C. N. De Witt, Ruby C. Fields, and Jesse W. Kimball, Idaho; Thomas M. Hein, Lemhi; Joseph L. Thorpe, Manti; George C. Larson, Nevada; James K. Burns, Monty E. Buster, and Claud C. Shannon, Payette; Hewitt B. Emigh, Carl J. Kriley, and Marion E. Mahoney, Salmon; Clayton F. Brower and Guy S. Heath, Sawtooth; J. Robert Logan and Foster Steele, Targhee; Thomas J. Haycock, Uinta; John B. Barr, Samuel A. Buchanan, and Clinton M. Mangun, Weiser; John W. Davis, Wyoming; forest clerks, Rama Heikes, Caribou, and Hensley G. Harris, Minidoka.

District 5.—Operation: Assistant forest rangers, William V. Mendenhall, Angeles; David W. Haas, California; George Park, Cleveland; Marion J. Brown, Inyo; Andrew A. Allen and Anthony E. O'Donnell, Kern; Noah W. Coleman, William B. Salstrom, Thomas A. Lane, Le Roy A. La Point, Klamath; Albert W. Bramhall, Lassen; Marion W. Durham and Charles D. Meissner, Modoc; William S. McMillan, Mono; Jed. E. Moore, Monterey; William Hayes, Paul C. Thayer, John S. Thomas, and Harry S. Yates, Plumas; Nickels C. Matzen, William H. Riegel, and Frank L. St. Clair, Sequoia; Bernard L. Girard, Shasta; William H. Love, Sierra; Charles W. Bonta, Lawrence E. Overmyer, James W. Poore, and Walter H. Coupe, Tahoe; Francis D. Bucklew, Ivan A. Cuff, Howard H. Griffitts, John A. Molin, Alva Tracy, and Bruce P. Viles, Trinity.

District 6.—Law: Earl C. Arnold, law clerk, district office. Operation: Wm. E. Atterbury, superintendent of telephone construction, district office; assistant forest rangers, Willard W. Lawton, Deschutes; Scott McComb and Norman C. White, Fremont; John F. Irwin, Minam; Orville M. Gillenwater and James W. White, Ochoco; Grover C. Simmons and James E. Van Nuys, Oregon; Harold S. Nevins and William D. Winniford, Santiam; Richard I. Helm, William F. Raithel, and Herman N. Wallace, Siskiyou; Thomas F. Lathrop and Purl N. Stephenson, Wallowa; Joseph Ridley, Washington; Reinhold A. Bottcher, Wenaha; Charles F. Groom and William F. Rankin, Whitman; Ethel S. Cotter, clerk, Tongass. Lands: Herbert C. Hanson, junior engineer; Althea M. Wheeler, clerk (stenographer and typewriter), by transfer from Interior Department. Products: James R. D. Knapp, laboratory assistant in timber tests, Seattle laboratory.

RESTORED TO THE ROLLS.

District 1.—Operation: Richard N. Bradley, forest ranger, Flathead; assistant forest rangers, Henry J. Lampe, Absaroka; Frank A. Clark and William E. Lockhart, Beartooth; William W. Fuller, Walter F. Gilliam, Percy Knowles, James D. Vance, and Winthrope H. Young, Bitterroot; George A. Bignell and Raymond J. Smith, Blackfeet; Ernest B. Clark and Justin K. Dwinelle, Cabinet; Magnus J. Durant, Clearwater; Grover A. Allen and Harvey Fearn, Coeur d'Alene; C. Lee Billings, Thomas A. Clapp, Harry G. Hungate, and Harold Townsend, Deerlodge; Philip A. Clack, Ellis B. Hoke, Frederick J. Holbrook, and Frank McClung, Flathead; Albert S. Hapner, Gallatin; Robert L. Hess, David C. Huson, John C. Ketridge, Clarence N. Lawrence, Robert C. St. Clair, Edward J. Weidner, and Henry C. Weidner, Kootenai; Harley M. Massie, Lewis and Clark; Charles E. Vealey, Lolo; Ben P. Martin and Raymond E. Maurer, Madison; Milo M. Hoyt and Edwin T. Irvine, Missoula; Thomas Crossley and Eugene Langdon, Nezperce; Walter Glen, Mark F. Kelley, W. Karl Loughborough, Claude C. Parker, and Harvey W. Phillips, Pend Oreille; Ray R. Fitting, Thomas S. Rackliff, and Adolph Weholt, Selway; Alexander T. MacNab, Sioux. District Office: Blanche M. Yates, clerk.

District 2.—Operation: Charles A. Dunn, clerk, Sopris; forest assistants, Leigh J. Young, Medicine Bow; Crosby A. Hoar, White River; assistant forest rangers, David E. Basham, Bridger; W. Frank Bates and Walter G. Brown, Colorado; Guy E. Tefft, Durango; Eldon W. Hauser, Gunnison; Kenson J. Helmick, Holy Cross; Edward F. Heaton, Leadville; Frank E. Stapleton and Stanley R. Brock, Routt; Norman B. Price, San Juan; Truman O. Foley, Uncompahgre; Walter T. Schmehl, Washakie; Robert K. Potter, White River.

District 3.—Operation: Assistant forest rangers, Arthur H. Noon, Coronado; James J. Woolsey, Crook; Joseph W. Jackson and Percy Reid, Gila; Daniel R. Carter, Jemez; John R. Coleman and Lewis J. Mundell, Lincoln; Jonathan L. Hughes, Sitgreaves. District Office: Marion Franklin, clerk (typewriter). Silviculture: Raymond E. Hopson, assistant forest ranger, Arkansas; Otto F. Swenson, forest assistant, Carson; John S. Boyce, forest assistant, Coconino Experiment Station.

District 4.—Operation: Forest assistants, Gilmour B. MacDonald, Boise; Irwin W. Cook, Targhee; assistant forest rangers, Clarence E. Favre, Payette; James J. McKelvey, Sawtooth; William M. Mace, Targhee.

District 5.—Operation: Willis M. Slosson, forest supervisor, Santa Barbara; John C. Wells, forest ranger, district office; Newton Garner, deputy forest ranger, Angeles; Henry W. Muzzall, deputy forest ranger, Santa Barbara; assistant forest rangers, John Grand, Angeles; James A. Brown and Isaac W. Decker, Cleveland; John M. Hughes, Eldorado; William J. Haskins, Inyo; Jesse L. High and Michael H. McCarthy, Klamath; Edmund M. Hufford, William J. Spalding, and Jonathan M. Stark, Lassen; John A. Kresge and Charles O. Leonard, Modoc; William B. Duncan, William H. Parkinson, and Leonard P. Wygle, Plumas; William A. Smith, Santa Barbara; Ross A. McCloud, Shasta; Hugh R. Downey, Robert C. McKenzie, and Earl R. Stevenson, Sierra; John N. Lindsey and George A. Gerber, Stanislaus;

G. W. Campbell, W. D. Campbell, Maurice S. Macy, Fred J. Dooley, George M. Noyes, George E. Poore, and Charles W. Sutcliffe, Tahoe; Oscar O. Hays and William H. Woodhams, jr., Trinity.

District 6.—Operation: John M. Schurr, forest ranger, Chugach; assistant forest rangers, Amos O. Masiker, Chelan; Eilert T. Skaar and E. George Williams, Columbia; Edward S. Kerby, Stephen A. Moore, and James J. Simerville, Crater; Clinton W. Combs, Fremont; John H. Blinn and Frederic V. Bradford, Malheur; Clayton Diver, Ernest Jameson, and Wm. C. Sweat, Okanogan; Parker S. Bonney and George W. Hutton, Olympic; Horace Berry, Carl C. Hill, George R. Ledford, Frank B. Rogers, John B. Senecal, and Hiram R. Wilcox, Oregon; Earl Austin and Kirk P. Cecil, Paulina; Edward B. Gibson, Oliver C. Klingensmith, Joseph L. Mackechnie, Edgar J. Murnen, Robert J. O'Farrell, Wm. Sethe, and Ed. Tittle, Rainier; A. E. Clark, Santiam; Wiley E. Escher, Earl G. Forbes, Lonzo D. Hurt, Walter H. Leve, Jos. G. G. Morgan, Wendell R. Whitney, and Newell L. Wright, Snoqualmie; Lovell E. Tipton, Umatilla; E. E. Harpham, Homer J. Ireland, and U. F. McLaughlin, Umpqua; Charles C. Hon and Oscar Pratt, Wallawa; James Lowden, Washington; Thomas H. Parker and R. E. Kan Smith, Whitman.

REINSTATED.

District 1.—Operation: James S. Garrison, assistant forest ranger, Clearwater.

District 3.—Operation: Walter R. Atkeson, assistant forest ranger, Datil.

District 4.—Operation: assistant forest rangers, Dan Nielson, Caribou, and Nicholas S. Phelan, Weiser; David A. West, clerk, district office.

District 5.—Operation: A. E. Ford Reel, clerk (stenographer and typewriter), district office; Clarence A. Morris, assistant forest ranger, California; Charles Kollman assistant forest ranger, Lassen.

District 6.—Operation: Edward H. Mahn, assistant forest ranger, Deschutes.

CHANGE IN DESIGNATION.

District 4.—Operation: Vernon Metcalf, clerk, district office to forest ranger, Kaibab; Walter G. Mann, assistant forest ranger to forest clerk, Payette.

District 5.—Operation: George Miller, from forest ranger to forest examiner, district office; Raymond Tyler, from forest supervisor, Monterey, to assistant forest ranger, Sierra.

TRANSFERRED.

Silviculture.—Silvics: Barrington Moore, forest assistant, from District 3.

Appalachian.—Lincoln Crowell, forest examiner, from District 4; Junius St. J. Benedict, forest assistant, from District 1.

District 1.—Operation: M. N. Stickney, from deputy forest supervisor, Bitterroot, to forest supervisor, Kaniksu; Dwight L. Beatty, forest ranger, from Bitterroot to Absaroka; Harry Lee Baker, assistant forest ranger, from Michigan to Kootenai. Silviculture: Edgar F. White, forest assistant, from Madison to district office; John E. Keach, forest assistant, from St. Joe to Helena; A. O. Benson, forest assistant, from Kaniksu to district office; J. St. J. Benedict, forest assistant, from Minnesota to Appalachian.

District 2.—District office: Agnes D. McNair, land law clerk, from District 6 to District 2. Operation: David C. Montgomery, jr., forest ranger, from Pike to White River; assistant forest rangers—Charles L. Gori, from District 2 to District 3; James P. Reddick, from Harney to Medicine Bow.

District 3.—Accounts: John P. Farnan, clerk (stenographer and typewriter), Coconino to district office; John W. Dykes, clerk, District 3 to District 7. Operation: assistant forest rangers, Walter J. Perry, Alamo to Carson; Charles V. Shearer, Carson to Pecos; Jesse I. Bushnell, Coconino Experiment Station to Coconino; Claude E. Malbone, Coconino to Jemez; John V. Hobbie, Coconino to Lincoln; O. Fred Arthur, forest ranger, Prescott to Manzano; Shepard Hiscox, forest ranger, Prescott to Tusayan; Geyer E. Johnston, forest clerk, Carson to Tusayan; Charles V. Carr, forest clerk, Tusayan to Carson; Thomas E. McCullough, forest assistant, Alamo to Conconino; M. Uva Pirkey, forest clerk, district office to Pecos; James F. Mullen, deputy forest supervisor, Zuni to district office. Silviculture: Ralph L. Bateman, assistant forest ranger, Sitgreaves to Apache; Dave Winbray, assistant forest ranger, Sitgreaves to Apache; Raymond E. Hopson, assistant forest ranger, Arkansas to Carson; Thomas B. Longwell, forest ranger, Sitgreaves to Carson; Robert R. Moak, Chiricahua to Gila; Jay L. B. Taylor, forest ranger, Arkansas to Jemez; Raymond E. Marsh, forest assistant, Arkansas to Carson; N. Curtis Case, forest assistant, Arkansas to Gila; George C. Morbeck, forest assistant, Ozark to Jemez; Barrington Moore, forest assistant, District 3 to District 7; John A. Adams, assistant forest ranger, Sitgreaves to Apache; Edwin C. Hamilton, draftsman (topographic), Ozark to Arkansas. Grazing: Winfield S. Day, Datil to Coconino; Arthur D. Read, forest examiner, district office to Coconino to Tusayan; James H. Sizer, assistant forest ranger, Apache to Coconino to Tusayan.

District 4.—Operation: Forest supervisors, Royal F. Mathias, Nevada to Salmon; James M. Ryan, Salmon to Ruby; deputy forest supervisors, George C. Thompson, Humboldt to Nevada; Duncan M. Lang, Idaho to Fishlake; Asa L. Brower, Lemhi, to forest assistant, Uinta; Lincoln Crowell, Sevier to Washington office; forest assistants, William N. Sparhawk, district office to Payette; Sidney S. Stewart, district office to Targhee; Edwin C. Shepard, Cache to Manti; Herman Work, Humboldt to Salmon; Reese W. Taylor, Sevier to district 5; forest rangers, Julius G. Maelzer, Lemhi to Idaho cooperation; Ulrich C. Pogge, Palisade to Idaho cooperation; assistant forest rangers, James H. Hull, Boise to Targhee; John A. Wood, Challis to Idaho cooperation; Andrew A. Casner, Kaibab to Boise; Ora Cockrell, Salmon to Idaho cooperation; Guy C. Hendrickson, forest clerk, Kaibab to Nevada; Gretchen A. Roler, clerk (typewriter), Nevada to Pocatello; Veronica Tegethoff, clerk, Boise to Santa Rosa.

District 5.—Operation: Reese W. Taylor, forest assistant, transferred to district 5 from district 4; Cary Hill, forest assistant, transferred from district 2 to district 5, Sierra; J. Leroy Mathias, hydraulic engineer, district 2 to district 5, as assistant to district engineer. Products: Percy R. Hicks, engineer in wood preservation, district 1 to district 5.

District 6.—Operation: Frank B. Rogers, Kirk P. Cecil, Aquilla E. Clark, assistant forest rangers, district 1 to district 6; Alexander G. Jackson, forest assistant, district office to Snoqualmie; Nettie B. Rhodes, clerk (stenographer and typewriter), district 2 to district 6.

PROMOTED IN RANK.

District 1.—Operation: Rutledge Parker, deputy forest supervisor, to forest supervisor, Missoula; M. N. Stickney, deputy forest supervisor, to forest supervisor, Kaniksu.

District 2.—District office: Ira T. Starbuck, assistant forest ranger, to forest ranger. Operation: Merle F. Frey, assistant forest ranger to forest ranger, Leadville; Stanley R. Brock, assistant forest ranger, to forest ranger, Routt.

District 3.—Operation: Robert Munro, assistant forest ranger, to forest ranger, Gila; Cyril Byrne, assistant forest ranger, to forest ranger, Sitgreaves.

District 4.—Operation: Samuel B. Locke, forest assistant, to deputy forest supervisor, Sawtooth; assistant forest rangers to forest rangers, John C. Brown (transferred also from Humboldt to district office); Francis Wallis, Payette; Frank S. Moore, Payette; George W. Goshen, laborer (skilled), to clerk (typewriter).

District 5.—Operation: Newton Garner, deputy forest ranger to assistant forest ranger, Angeles; Edward L. Varney, assistant forest ranger to forest ranger, Plumas.

LEAVE WITHOUT PAY.

District 1.—Operation: Vernon Heikes, forest clerk, Blackfeet; Evalyn Eddy, clerk (stenographer and typewriter), St. Joe; assistant forest rangers, Magnus J. Durant, Clearwater; Charles A. Newman, Custer; Kirk P. Cecil, Deerlodge; Allen O. Calbick, Flathead; James W. McAbee, Kaniksu; Richard E. Moses, Nezperce; William A. Schell, Pend Oreille; Harry Holverson, Sioux; John D. Brooks, St. Joe. District office: Harold L. Redlingshafer, clerk; Blanche M. Yates, clerk; Grace M. Lee, clerk (stenographer and typewriter). Silviculture: Howard A. Green, forest assistant.

District 2.—District office: Harry M. Booth, expert miner; Nellie E. Dillon, forest clerk. Operation: Gustave H. Gleitsmann, clerk (stenographer and typewriter), Bonneville; forest assistants, Earl S. Pierce, Bighorn; Stephen V. Klem, Harney; forest rangers, Charles C. White, Arapaho; Thomas Acord, Colorado; Charles A. Sommers, Routt; assistant forest rangers, Alison L. Kroeger, Durango; Marvin H. Sartor, Medicine Bow.

District 3.—Operation: Charles C. Hall, forest supervisor, Carson; Hugh L. Stevenson, forest clerk, Crook; James C. Bertholson, jr., assistant forest ranger, Jemez; John L. Bryan, jr., assistant forest ranger, Lincoln; Henry L. Benham, forest ranger, Tusayan; Claude Thompson, forest ranger, Coconino. Silviculture: Henry L. Johnson, forest assistant, Sitgreaves. Grazing: John Kerr, assistant district forester, district office.

District 4.—Operation: Alvin W. Garrison, forest ranger, Humboldt; assistant forest rangers, Henry K. Lewis, Boise; Robert W. Strong, La Sal; Ruth W. Helff, clerk; district office; Effie Jensen, forest clerk, Pocatello.

District 5.—Operation: Jesse W. Hough, forest assistant, Angeles; Alley C. Keller, deputy forest ranger, Angeles; Homer O. Eaton, assistant forest ranger, Cleveland; Minnie B. Lamson, clerk (stenographer and typewriter), Cleveland; Edward William Fessel, assistant forest ranger, Eldorado; William F. E. Kelley, assistant forest

ranger, Eldorado; Walter L. Parsons, assistant forest range, Eldorado; J. S. Siverton, forest ranger, Tahoe.

District 6.—Operation: Bessie M. MacMillan, clerk, Snoqualmie.

FURLOUGHED.

District 1.—Operation: Emily Perrine, clerk (stenographer and typewriter), Jefferson; assistant forest rangers, William W. Fuller and Walter F. Gilliam, Bitterroot; Fred F. Clark and Charles A. Sage, Blackfeet; Grover A. Allen and Samuel F. Millsap, Coeur d'Alene; Thomas A. Clapp, Deerlodge; Rhesis Fransham, Gallatin, Charles S. Dennis, Robert L. Hess, Clarence N. Lawrence, Charles E. Marshall; Perry R. Rogers, Edward J. Weidner, and Henry C. Weidner, Kootenai; Henry Huck and Eugene Langdon, Nezperce.

District 2.—Operation: Albert Hill, assistant forest ranger, Bridger.

District 5.—Operation: George Bettandorff, assistant forest ranger, Modoc; William F. Blackburn, assistant forest ranger, Santa Barbara; William A. Smith, assistant forest ranger, Santa Barbara.

District 6.—Operation: George R. Ledford, assistant forest ranger, Oregon.

RESIGNED.

Products.—Laboratory: Harold R. Winter, assistant engineer in Forest Products; Wood Utilization: Homer S. Sackett, chief of Wood Utilization.

Appalachian.—Clyde Leavitt, forest inspector.

District 1.—Operation: Goodwin Helseth, forest clerk, Helena; Arthur F. Oppel, forest assistant, Sioux; assistant forest rangers, Robert A. D'Ewart, Absaroka; Charley E. Jordan, Beartooth; James A. La Marche, Beaverhead; Thomas E. Robinson, Coeur d'Alene; Alfred L. Rossman, Jefferson; Harry C. Hockett, Lolo; Sterling H. Findley, Madison; Charles E. Jarvis and John W. Rice, Missoula; Ernest A. MacKay, Pend Oreille.

District 2.—Operation: Walter A. Donaldson, forest ranger, Harney; assistant forest rangers, Arthur F. Ramey, Battlement; Lester J. Stoner, Gunnison; Percy R. Westover, Hayden; Benjamin F. Carter, Leadville; John R. Padgett, Sundance.

District 3.—Accounts: Louise M. Noyes, clerk (typewriter), district office. Operation: William H. Criswell, assistant forest ranger, Datil; Herbert A. Fielder, assistant forest ranger, Gila; Bert G. Phillips, forest ranger, Carson; Sebird Henderson, assistant forest ranger, Sitgreaves; Roger A. Morse, forest clerk, Tusayan; Ross M. Atkins, Walter M. Barnes, William J. Bruton, Charles L. Gori, and Benjamin F. Hooten, assistant forest rangers, Datil.

District 4.—Operation: Forest rangers, Coit E. Herrick and David H. Kerby, Payette; Peter T. Wrensted, Pocatello; assistant forest rangers, William L. Baker and William H. George, Payette; Melvin R. McCoy, Sawtooth; Odo R. Thomas, Uinta.

District 5.—District office: Walter A. Greer, clerk (stenographer and typewriter); Herman E. McKenzie, engineer in timber tests; Fred Weber, forest clerk; John Grand, assistant forest ranger, Angeles; Isaac W. Decker, assistant forest ranger, Cleveland; Charles W. Fulton, assistant forest ranger, Mono; John E. Smith, assistant forest

ranger, Mono; Zachary T. Davidson, assistant forest ranger, Santa Barbara; William C. Burton, deputy forest supervisor, Sequoia; Harlow M. Baldwin, assistant forest ranger, Sierra; Roy C. Hennessy, clerk (typewriter), Stanislaus; James Davis, assistant forest ranger, Modoc; Adlai J. Zumwalt, clerk (stenographer and typewriter), Plumas.

DISTRICT 6.—District forester: R. E. Benedict, forest supervisor, district office. Operation: Assistant forest rangers, Dee Wright, Cascade; Carl B. Neal, Crater; Earl Abbott, Fremont; Walter O. B. Davidson, Oregon; Carl M. Ewing and Thomas H. Griggs, Paulina; Archie O. Knowles, Santiam; James T. Brand, Umpqua; Hans T. Hansen, Rush T. Huston, and Carl W. Ray, Wenatchee; W. W. Hawley, jr., Whitman; E. A. Braniff, forest supervisor, Crater; Sherman A. Brown, deputy forest supervisor, Minam. Lands: Virginia M. Bain, clerk (by transfer to the Interior Department).

APPOINTMENT TERMINATED.

PRODUCTS.—Laboratory: Howard S. Bristol, expert; Simon Kirsch, expert.

DISTRICT 1.—Operation: William L. Nottingham, assistant forest ranger, Bitterroot.

DISTRICT 2.—District office: John E. Elliott, lumberman. Operation: Forest rangers, Jay C. Clark, Bonneville; Edwin Bluck, Durango; assistant forest rangers, Thomas E. Price, Durango; George C. Widman, Rio Grande.

DISTRICT 3.—Silviculture: Clarence Goddard, assistant forest ranger, Arkansas.

DISTRICT 5.—District office: Louis Margolin, forest examiner; Frances Wainwright, clerk (stenographer and typewriter). Operation: Fred E. Field, clerk (stenographer and typewriter), Cleveland; assistant forest rangers, Alvin T. Bodle and A. C. Burdick, Inyo; Jesse L. High, Klamath; Roy Gooch, Modoc; Lemuel M. Wright, Mono; Hedley L. Mero, Stanislaus; Walter S. Barton and Maurice S. Macy, Tahoe; John W. Larson and John R. Sorenson, Trinity.

DISTRICT 6.—Operation: Elaine Hunt, clerk, Chugach; Thomas E. Chidsey, forest ranger, Crater; Corydon P. Cronk, assistant forest ranger, Siuslaw.

DISMISSED.

DISTRICT 1.—Operation: R. C. W. Friday, assistant forest ranger, Clearwater. Lands: Henry C. Allen, clerk.

DISTRICT 2.—Operation: Leonard Hawkins, assistant forest ranger, San Isabel.

With deep regret announcement is made of the following deaths: Former Supervisor W. E. Jackson, Bighorn National Forest, on March 4; John H. Mullison, forest ranger, Medicine Bow National Forest, on April 6; Thomas F. Wells, assistant forest ranger, at Belize, British Honduras, Central America, on May 26; Charles F. Cooley, forest ranger, Wasatch National Forest, on June 28; and Cyrus T. McCall, assistant forest ranger, Idaho National Forest, on April 4.

SERVICE NOTES FOR JULY.

These notes contain instructions and necessary information to forest officers, and will therefore be carefully read and kept on file for reference.

OFFICE OF THE FORESTER.

JULY 1, 1912.

Attendance at Meetings or Conventions—

GENERAL ORDER NO. 155.

Attention is invited to the following provision in the act approved June 26, 1912, making appropriations to provide for the expenses of the government of the District of Columbia for the fiscal year ending June 30, 1913, and for other purposes:

> SEC. 8. No money appropriated by this or any other act shall be expended for membership fees or dues of any officer or employee of the United States or of the District of Columbia in any society or association or for expenses of attendance of any person at any meeting or convention of members of any society or association, unless such fees, dues, or expenses are authorized to be paid by specific appropriations for such purposes or are provided for in express terms in some general appropriation.

Hereafter, in conformity with the foregoing provision, no officer or employee of the Department of Agriculture attending any convention or meeting of an association of any kind will be reimbursed for any expenses incurred in connection therewith. In case officers or employees desire to attend at their own expense society or association conventions or meetings which have for their object the advancement of sciences bearing directly upon the work of the Department of Agriculture or objects otherwise related to the work of the department, permission must be secured in advance from the Secretary, upon the recommendation of the chief of the bureau involved. When such permission is granted by the Secretary the time consumed by officers or employees in proceeding to such conventions or meetings, in attendance thereon, and in returning to their official duties, will be charged to annual leave, with or without pay, as the Secretary may direct.

All previous orders in conflict with the above are hereby revoked.

JAMES WILSON, *Secretary.*

Delayed Publications: General Administration Section of National Forest Manual, and Circular of Instructions for Building and Maintenance of Telephone Lines—

The General Administration and Protection section of the National Forest Manual and the circular entitled "Instructions for the Building and Maintenance of Telephone Lines" are in the hands of the printer. The manuscripts were ready for publication in June, but owing to the lack of funds work upon them had to be delayed until after July 1. It is now expected that these publications will be ready for distribution before the end of July.

LAW.

OFFICE OF THE SOLICITOR.

Law Cases in District 1—

At the May term of the United States district court for the district of Idaho indictments were returned against Fred Danke and George, alias Fuzzy, Reed, for having unlawfully conducted a saloon business upon an unperfected mining claim within the St. Joe National Forest. Danke entered a plea of guilty and was sentenced to pay a fine of $150 and serve 60 days in jail. Reed was found guilty and sentenced to 60 days in jail.

At the May term of the United States district court for the district of Montana, in the case of the United States *v.* G. D. Gorus, timber trespass on the Bitterroot National Forest, the court directed a verdict for plaintiff to the amount of the value of the timber after it was cut at the place where cut. The court based its instructions on the case of U. S. *v.* St. Anthony R. R. Co. (192 U. S., 524; 48 L. Ed., 548).

Law Cases in District 2—

Suit was filed in the United States district court for Colorado for an injunction to restrain the Central Colorado Power Co. from occupying certain land in the Holy Cross National Forest with tunnels and pipe lines without first obtaining a permit from the Secretary of Agriculture.

T. H. Vance paid to the district attorney, on account of the United States, the sum of $150 in settlement of a timber trespass on the basis of willfulness, the punitive damages being waived.

Ben Rishor, charged with obtaining from the United States mails a letter addressed to another, containing a check of the district fiscal agent, then cashing it and appropriating the proceeds to his own use, was tried in the United States district court on May 23, at Deadwood, S. Dak., and acquitted.

The case of the United States *v.* the Newcastle Land & Live Stock Co. for damages resulting from grazing sheep without a permit on the Sundance National Forest, was tried at Cheyenne, Wyo., May 16, and resulted in a verdict for plaintiff for $351.29 and costs.

On May 23 William Oliver, George Ackerman, W. O. Wilbour, Louis Poolovich, and J. P. Lipsey, on their plea of leaving a fire unattended on the Black Hills National Forest were fined $10 each and costs.

Law Cases in District 3—

Barney Oberto was fined $200 and his herders, F. Figueroa, D. Garcia, and P. Lente, $1 each for grazing trespass on the Tonto National Forest; Miguel Cruz was sentenced to 20 days in jail for cutting firewood without permit on the Coronado; C. H. Brown was fined $200 and his herder, Bonifacio Duran, $25 for grazing trespass on the Tonto; John Revello was fined $50 for maintaining a saloon on an unperfected claim on the Prescott; judgment for $472.35 was rendered against Margarito Romero for timber trespass on the Pecos; for grazing trespass on the Alamo, J. J. Mills confessed judgment for $91.64, Eugene Joy for $101.60, and W. F. Montgomery for $169.55.

William Brashears, charged with presenting a false claim of $2.70 against the Government, Ozark National Forest, was tried and fou not guilty.

Law Cases in District 4—

In the case of the United States *v.* the Pacific Land & Water Co., timber trespass on the Minidoka National Forest, defendant company settled by the payment of $794.44, the value of the timber; the case of Orson Hyde, grazing trespass on the Ashley Forest, was settled by defendant's paying $44.27 damages and $11.50 costs.

A bill in equity was filed in the United States District Court for Utah for an injunction to restrain the Telluride Power Co. from further occupancy of the Wasatch Forest without a permit.

Law Case in District 5—

Suit was filed in the Superior Court of Tuolumne County, Cal., against R. W. Ayres, supervisor of the Stanislaus National Forest, to enjoin the collection of grazing fees on lands claimed by plaintiff under the swamp and overflow act.

Law Cases in District 6—

In the United States District Court for Oregon Harvey Purdy and Thomas Jacob plead guilty on March 21 to an indictment for willful trespass on the Wallowa National Forest, and were fined $100 and costs of $90.85.

In the same court the case against Theophile Blanc for willful grazing trespass on the Wallowa National Forest was settled April 29 by payment to the United States of $13.75 actual and $50 punitive damages.

On April 25 W. L. LaMotte plead guilty to the charge of constructing a flume on the Okanogan National Forest without permit, and was fined $10 and costs $362.21.

In the case of the United States *v.* the Northern Pacific Railway Co., for fire trespass on the Snoqualmie National Forest, a motion for a retrial was denied and on May 17 the company paid the judgment of $4,000 and costs of $426.89, which was the amount of the verdict at the second trial December 2, 1911.

ACCOUNTS.

Subsistence for One Day after Arrival—

Paragraph 9 (*k*) of the Fiscal Regulations of the department provided that, "An employee assigned to permanent duty at a new station will be allowed lodging and meals while securing a suitable permanent residence for one full day after reaching his destination." In a decision dated June 20, 1912, the Comptroller of the Treasury holds that this allowance is not authorized by law. Forest Service employees affected will prepare their reimbursement accounts accordingly.

OPERATION.

Fire Cooperation by Postal Employees—

The following order was issued by the Post Office Department on June 8:

To the POSTMASTER.

SIR: Your attention is directed to the following order issued by the Postmaster General under date of May 31, 1912:

ORDER No. 6315.

The following instructions are promulgated for the guidance of the postal employees concerned:

In accordance with the request of the Secretary of Agriculture, this department has arranged a plan of cooperation with State and National Forest officers whereby rural and star route carriers shall report forest fires discovered by them along their routes to persons designated by the State and National authorities to receive such intelligence.

Cooperation with State officers will be given in the following States: Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, Maryland, West Virginia, Tennessee, Kentucky, Michigan, Wisconsin, Minnesota, Idaho, Washington, Oregon, and California.

The national forest officers will be cooperated with in the following States: Florida, Arkansas, South Dakota, Wyoming, Colorado, New Mexico, Arizona, Utah, Montana, Idaho, Washington, Oregon, and California.

The State and national authorities will inform postmasters as to whom the discovery of fires should be reported, and each rural carrier should be directed to cooperate to the fullest extent with such authorities in the manner agreed upon, namely, that the carrier shall report a fire to the nearest State fire warden or national forest officer on his route, or, if no such warden or officer lives on the route, to arrange through some responsible citizen to have him notified, by telephone, if possible. Star-route contractors and carriers are included in the plan of cooperation and should be requested to report the discovery of fires in the same manner as will be done by the rural carriers.

Postmasters in or near national forests are also directed to report fires to the nearest forest officer.

Respectfully,

P. V. De Graw,
Fourth Assistant Postmaster General.

The purpose of this order is to supplement the fire patrol maintained by the Forest Service, States, and private protective organizations by such additional patrol as the rural and star-route carriers of the Post Office Department are able to perform in connection with their regular duties. Much efficient assistance has been rendered by the employees of the Post Office Department in the past in reporting forest fires. This order of the department will make such cooperation more general and definite, and should be of material assistance in the problem of fire control. The duties assumed by postal employees must necessarily be subordinate to their regular work in handling United States mails. While postmasters are directed to report fires to the nearest forest officers, the contractual relations between the post office and rural and star-route carriers are such as to prohibit similar instructions to employees of these classes. Their cooperation, however, which is requested in the order, should in the sum total prove of valuable assistance.

These limitations upon the cooperation of postal employees should be fully considered in any requests made upon them for assistance.

Signs, Symbols, and Colors—

The Forest Atlas legend page was prepared to accompany the Atlas Folios. These folios have been issued for all Forests, but as there is still a constant demand for copies of the legend it has been issued in book form as a supplement to the Instructions for Making Forest Surveys and Maps. Some new legends and symbols have been added to provide for the greater scope of forest work, particularly in the Eastern States.

In accordance with the Executive order, August 10, 1906, this publication was submitted to the United States Geographic Board and was approved after a few

slight changes in some of the signs formerly employed. The changes will not cause any confusion. It is expected that these signs, symbols, and colors, which conform with those now in general use in North America, will, with some additions, be adopted by an international congress of geographers for the use of all map-making nations. In anticipation of this a study was made in the office of geography, in 1908, of all of the signs and symbols used throughout the world, and the Atlas legend was prepared in such a manner as to avoid, wherever possible, a conflict with the usage of other countries. This new publication is now slightly amended so as not to conflict in any respect with the recommendations which will be made by the United States Geographic Board to the international congress. Sample copies have been sent to district foresters and supervisors. Additional copies may be obtained from the property clerk. They are expendable property.

Form 331 Revised—

Property Record Form 331 is revised, and distribution has been made. By use of the revised form the Forest, individual, and stock accounts are all carried on one set of cards, the property accounting procedure, thereby, being materially simplified.

New Lookout Station Protractors—

A new sheet has been issued with three Fire Lookout Station Protractors, printed concentrically in two colors, their diameters being 8, 16, and 24 inches. They are printed both upon map paper and transparent paper, and therefore meet the needs or preferences of any forest officer. A protractor of either size may be cut out of the sheet, or a piece of the Forest map may be pasted in the center of the protractor. Engineers and draftsmen will also find them useful, and, if necessary, they may be mounted to stiffen them. Twenty copies have been sent to each district forester, and they may be obtained by any forest officer on requisition to the property clerk. They are expendable property.

SILVICULTURE.

Amendments to Manual: Timber Settlements and Special Uses—

Attention is called to the amendments to the Manual relating to Timber Settlements and Special Uses, summarized as follows: Nos. 125, 126, 127, and 128, which provide that reports on Forms 578a and 578b in connection with applications for special uses need not be made, in the discretion of the approving officer, prior to the issuance of the permit, but may be prepared subsequently, in advance of cutting or destruction.

SERVICE PUBLICATIONS ISSUED.

Bulletin 96. Second-Growth Hardwoods in Connecticut.
Bulletin 106. Wood-Using Industries and National Forests of Arkansas.
Bulletin 107. The Preservation of Mine Timbers.
Circular 197. Utah Juniper in Central Arizona.
Circular 199. Quantity and Quality of Creosote Found in Two Treated Piles After Long Service.
Circular 202. Quebracho Wood and Its Substitutes.
Circular 204. Strength Tests of Cross-Arms.
Unnumbered. Experiments with Jack Pine and Hemlock for Mechanical Pulp.
Unnumbered. Instructions for Making Forest Surveys and Maps (Revised).

INDEX TO SERVICE NOTES AND ORDERS.

(JULY, 1912.)

[Numbers in parentheses after the month indicate page.]

Amendments to manual: Timber settlement and special uses; (28).
Attendance at meetings or conventions; (24).
Delayed publications; (24).
Fire cooperation by postal employees; (26).
trespass. (*See* Trespass, fire.)
Form 331 revised; (28).
General order 155; (24).
Grazing trespass. (*See* Trespass, grazing.)
Law cases in district 1: (25).
2: (25).
3: (25).
4: (26).
5: (26).
6: (26).
Manual, amendments to; (28).
Protractor, lookout station; (28).
Signs, symbols, and colors; (27).
Subsistence for one day after arrival; (26).
Timber trespass. (*See* Trespass, timber.)
Trespass cases, fire, district 2: (25).
district 6: (26).
grazing, district 2: (25).
district 3: (25).
district 4: (26).
district 6: (26).
timber, district 1: (25).
district 2: (25).
district 3: (25).
district 4: (26).

O

W. Mulford

Issued January 18, 1913.

UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.

HENRY S. GRAVES, Forester.

January Field Program, 1913.

This program of field work and assignments in the Forest Service is issued quarterly on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

OFFICE OF THE FORESTER.

HENRY S. GRAVES, Forester.
ALBERT F. POTTER, Associate Forester.

HERBERT A. SMITH, editor; BRISTOW ADAMS, forest assistant.
FINDLEY BURNS, in charge of technical review.
Educational cooperation, DON CARLOS ELLIS.
Proofs and forms, CLAUDE M. BALLARD.
GEORGE B. SUDWORTH, dendrologist; C. D. MELL, assistant dendrologist.
Wood structure studies, W. D. BRUSH, ARTHUR KOEHLER.
Forest distribution, W. H. LAMB, in charge; G. E. WHARTON.
EUGENE S. BRUCE, expert lumberman.
D. D. BRONSON, general inspector.

ACCOUNTS.

Division of Accounts and Disbursements (Forest Service branch).
M. E. FAGAN, chief office of accounts; E. A. MELZAR, assistant chief.

72794—13——1

OPERATION.

JAMES B. ADAMS, assistant forester, in charge; FRANKLIN W. REED, forest inspector; GEORGE G. ANDERSON, administrative assistant.

GEOGRAPHY.—FRED G. PLUMMER, chief.

ATLAS.—G. B. BRUCE.

DRAFTING.—C. A. KOLB.

PHOTOGRAPHY.—E. S. SHIPP.

MAINTENANCE.—GEORGE A. BENTLEY, chief.

SILVICULTURE.

W. B. GREELEY, assistant forester, in charge; EARLE H. CLAPP, forest inspector; R. Y. STUART, forest inspector; FRANKLIN H. SMITH, statistician in forest products, special detail; BARRINGTON MOORE, forest plans; HARRY IRION, office assistant.

STATE COOPERATION.—J. G. PETERS, chief.

Collaborators, State cooperative fire protection under the Weeks law.—Frank E. Mace, land agent and forest commissioner, Augusta, Me.; E. C. Hirst, State forester, Concord, N. H.; F. H. Billard, forester, New Hampshire Timberland Owners' Association, Berlin, N. H.; A. F. Hawes, State forester, Burlington, Vt.; F. W. Rane, State forester, Boston, Mass.; W. O. Filley, State forester, New Haven, Conn.; C. R. Pettis, superintendent of forests, Albany, N. Y.; C. P. Wilber, State fire warden, Trenton, N. J.; F. W. Besley, State forester, Baltimore, Md.; E. M. Griffith, State forester, Madison, Wis.; Wm. T. Cox, State forester, St. Paul, Minn.; F. A. Elliott, State forester, Salem, Oreg.; J. R. Welty, State forester and fire warden, Olympia, Wash.

State reports.—L. S. Murphy.

SILVICS.—RAPHAEL ZON, chief; S. T. DANA, assistant chief.

Studies.—E. H. Frothingham, W. D. Sterrett, C. R. Tillotson, G. N. Lamb, W. R. Mattoon, G. E. Clement.

COMPUTING.—W. B. BARROWS.

LIBRARY.—MISS H. E. STOCKBRIDGE.

COMPILATION.—GEO. DE S. CANAVARRO; Miss E. B. Leech.

FOREST MANAGEMENT IN THE EAST.—A. W. WILLIAMSON, acting in charge.

GRAZING.

A. F. POTTER, associate forester, in charge; L. F. KNEIPP, assistant forester; WILL C. BARNES, inspector of grazing.

GRAZING STUDIES (in cooperation with F. V. Coville, botanist, Bureau of Plant Industry).—James T. Jardine, inspector of grazing, in charge, Washington, D. C.

Forage investigations.—Arthur T. Sampson and William A. Dayton, plant ecologists, Washington, D. C.

Range reconnaissance.—Charles E. Fleming, Lynn H. Douglas, Robert R. Hill, Alfred E. Aldous, Washington, D. C.

LANDS.

JAMES B. ADAMS, assistant forester, in charge; O. C. MERRILL, chief engineer; F. H. FOWLER, engineer.

OCCUPANCY.—CHARLES H. SQUIRE, in charge; W. J. MANGAN, examiner.

CLAIMS.—JAMES I. PARKER, in charge; F. L. HARVEY, examiner.

PRODUCTS.

W. B. GREELEY, assistant forester, in charge.

FOREST PRODUCTS LABORATORY (in cooperation with the University of Wisconsin, Madison, Wis.).—HOWARD F. WEISS, acting director.

Cooperation.—CARLILE P. WINSLOW.

Design of laboratory equipment.—ROLF THELEN.

Review of results.—WM. H. KEMPFER, H. S. BETTS.

CHEMISTRY AND DISTILLATION.—L. F. HAWLEY, in charge; E. Bateman, A. W. Schorger, F. W. Kressman, R. C. Palmer, Jacob M. Johlin, jr., Joseph P. Mehlig.

ENGINEERING.—A. L. HEIM, in charge; Frank J. Hallauer, James O. Bixby, O. M. Sutherland.

MAINTENANCE. ——.

PULP AND PAPER.—H. E. SURFACE, in charge; Robert E. Cooper, Sidney D. Wells, Charles S. Gwinn.

TIMBER PHYSICS.—H. D. TIEMANN, in charge; Frederick Dunlap, Eloise Gerry, N. de W. Betts, C. T. Barnum, M. E. Diemer, Estelle Louise Jensen.

TIMBER TESTS.—JOHN A. NEWLIN, in charge; A. K. Armstrong, Thomas R. C. Wilson, Lorraine J. Markwardt.

WOOD PRESERVATION.—FRANCIS M. BOND, in charge; E. W. Peters, H. M. Mason, jr., Clyde H. Teesdale, James D. MacLean.

GROUND-WOOD-PULP LABORATORY, Wausau, Wis.—JOHN H. THICKENS, in charge; Sidney E. Lunak, G. C. McNaughton.

PATHOLOGY (in cooperation with the Bureau of Plant Industry).—C. J. HUMPHREY, in charge; M. C. Jensen.

WOOD UTILIZATION AND EASTERN PRODUCTS DISTRICT.—O. T. SWAN, in charge, Washington, D. C. Wood Consumption Studies, R. E. Simmons, John T. Harris, Clark W. Gould, H. L. Davis, S. L. Wolfe, Washington, D. C.; E. F. Horne, New Haven, Conn.; Hu Maxwell, Chicago, Ill. Wholesale Lumber Prices and Stumpage Values, Jesse C. Nellis. Production of Lumber and Forest Products, A. H.

Pierson, Washington, D. C.; A. L. Strough, Albany, N. Y. Chestnut Blight Utilization Studies, Jesse C. Nellis, H. M. Sears, C. B. Baker, Washington, D. C.

ACQUISITION OF LAND UNDER THE WEEKS LAW.

WM. L. HALL, assistant forester, in charge, Washington, D. C.

LUMBERMEN'S EXAMINATIONS.—D. W. Adams, W. W. Ashe, C. D. Cushing, E. D. Fletcher, and Geo. E. Marshall, Washington, D. C.

EXAMINATIONS OF LANDS.—K. W. WOODWARD, in charge, Washington, D. C. White Mountain area, J. S. Benedict, in charge, Gorham, N. H., and D. W. Martin, forest assistant; Massanutten, Potomac, and Youghiogheny areas, E. D. Clark, forest assistant, in charge, Woodstock, Va.; Shenandoah area, S. H. Marsh, forest assistant, in charge, Washington, D. C.; Natural Bridge area, J. H. Fahrenbach, forest assistant, in charge, Natural Bridge, Va.; Monongahela area, W. A. Hopson, forest assistant, in charge, Washington, D. C.; White Top area, C. Macfarlane, forest assistant, in charge, Abingdon, Va.; Mount Mitchell area, L. L. Bishop, forest assistant, in charge, Marion, N. C., and R. J. Noyes, forest assistant; Nantahala area, R. F. Hemingway, forest assistant, in charge, Andrews, N. C., and H. L. Russell, E. M. Brunner, W. E. Barbour, K. Schmitt, J. S. Kaplan, forest assistants; Smoky Mountain area, V. Rhoades, forest examiner, in charge, Townsend, Tenn.; Savannah area, R. W. Shields, forest assistant, in charge, Clayton, Ga., and C. E. Beaumont, forest assistant; Georgia area, E. V. Clark, forest examiner, in charge, Blueridge, Ga., and H. L. Johnson and J. H. Keyes, forest assistants. R. C. Hall, J. J. Fritz, E. P. Bushnell, and R. P. Holdsworth, forest assistants, Washington, D. C.

SURVEY OF LANDS.—R. DIEFFENBACH, forest examiner, acting in charge; R. G. Merritt, S. H. Thompson, and H. G. Spahr, forest assistants, Washington, D. C.; Massanutten area, A. P. Hamilton; Mount Mitchell area, D. M. Gibson; Nantahala area, Harold G. Wood and J. Denman; Smoky Mountain area, R. E. Witt, William N. Sloan, and T. A. Cox, jr.; White Mountain area, F. A. Gardner, A. E. Hoxie, L. C. Marshall, and H. L. Tucker.

LAW.—Office of the Solicitor (Forest Service branch). Record examiners, M. B. Stickley, Franklin, N. C.; George E. Taylor, Bristol, Tenn.; Cameron F. MacRae, Franklin, N. C.; Alfred I. Grigg, Maryville, Tenn.; A. S. Lanier, Richmond, Va.; Clarence E. Miles, Lancaster, N. H.

DISTRICT 1.

Montana, northeastern Washington, northern Idaho, northwestern South Dakota, northern Michigan, northern Minnesota, and southwestern North Dakota. Office, Hammond Block, Missoula, Mont.

F. A. SILCOX, district forester; E. W. KRAMER, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). W. C. HENDERSON, assistant to the solicitor, in charge; HAROLD H. CLARKE, assistant to the solicitor.

ACCOUNTS.—JOHN A. URBANOWICZ, district fiscal agent.

OPERATION.—J. F. PRESTON, assistant district forester; R. B. ADAMS, superintendent of telephone construction.

MAINTENANCE.—GARDNER I. PORTER.

SILVICULTURE.—D. T. MASON, assistant district forester.

TIMBER SALES.—DONALD BRUCE.

PLANTING.—H. H. FARQUHAR; EDGAR F. WHITE, forest assistant.

SILVICS.—F. I. ROCKWELL; A. O. BENSON, forest assistant.

S. S. J. MALVEN, insect control.

JAMES R. WEIR, consulting pathologist, Missoula, Mont.

GRAZING.—C. H. ADAMS, assistant district forester.

LANDS.—R. H. RUTLEDGE, assistant district forester, JOHN D. JONES, assistant.

EXPERIMENT STATION.

Priest River, Kaniksu National Forest.—DONALD R. BREWSTER, forest assistant, in charge, Priest River, Idaho; Julius V. Hoffman, forest assistant.

FOREST INSECT FIELD STATION.

(Bureau of Entomology, Branch of Forest Insect Investigations.)

Station 1, Missoula, Mont.—JOSEF BRUNNER, agent and expert in charge.

NATIONAL FORESTS.

IDAHO.

Clearwater.—CHARLES A. FISHER, forest supervisor, Orofino (WU–Am); Alfred B. Hastings, forest assistant.

Coeur d'Alene.—ROSCOE HAINES, acting forest supervisor, Coeur d'Alene (WU–Am); Joseph B. Halm, deputy forest supervisor; W. W. Morris and Carl M. Stevens, forest assistants.

Kaniksu.—See Washington.

Nezperce.—GEORGE V. RING, forest supervisor, Grangeville (WU–Am); J. Arthur Brown, deputy forest supervisor.

Pend Oreille.—J. A. FITZWATER, forest supervisor, Sandpoint (WU–Am, N, W); Charles F. Howell, deputy forest supervisor; James R. Gillis, forest assistant.

Selway.—FRANK A. FENN, forest supervisor, Kooskia (WU–N).

St. Joe.—THOMAS C. SPAULDING, forest supervisor, St. Maries (Continental–WF); Edward A. Holcomb, deputy forest supervisor; Wilford B. Willey, John E. Keach, and Richard C. Eggleston, forest assistants; C. H. Gregory, lumberman.

MICHIGAN.

Marquette. Michigan.—W. B. PIPER, forest supervisor, East Tawas (WU–Am).

MINNESOTA.

Minnesota.—G. E. MARSHALL, forest supervisor, Cass Lake (WU–Am, GN).

Superior.—LESLIE BROWNELL, acting forest supervisor, Ely (WU–GN).

MONTANA.

Absaroka.—JOSEPH D. WARNER, forest supervisor, Livingston (WU–Am, N); D. L. Beatty, deputy forest supervisor.

Beartooth.—GLEN A. SMITH, forest supervisor, Billings (WU–Am, N); Arthur H. Abbott, deputy forest supervisor; James C. Whitham, forest assistant.

Beaverhead.—C. K. WYMAN, forest supervisor, Dillon (WU–Am); George E. Martin, deputy forest supervisor; Charles R. Clark, forest assistant.

Bitterroot.—W. W. WHITE, forest supervisor, Missoula (WU–Am, N); Abbott B. Silva and Herbert F. Lindsay, forest assistants.

Blackfeet.—R. P. MCLAUGHLIN, forest supervisor, Kalispell (WU–Am, GN); David D. Johnson, deputy forest supervisor; J. A. Larsen, forest assistant.

Cabinet.—CLAUDE W. GRIFFIN, forest supervisor, Thompson Falls (WU–Am, N); Justin K. Dwinelle, forest assistant.

Custer.—KNOX MCANALLY, forest supervisor, Miles City (WU–Am, N).

Deerlodge.—LEWIS C. STOCKDALE, acting forest supervisor, Anaconda (P–Am, N); R. Trevor Ferguson, deputy forest supervisor; C. N. Whitney, forest assistant.

Flathead.—PAGE S. BUNKER, forest supervisor, Kalispell (WU–Am, GN); John H. Clack, deputy forest supervisor.

Gallatin.—D. T. CONKLING, forest supervisor, Bozeman (WU–Am, N); Samuel R. Hays, deputy forest supervisor.

Helena.—J. B. SEELY, forest supervisor, Helena (WU–Am, N); Waldo D. Barlow, forest assistant.

Jefferson.—WALLACE S. PERRINE, forest supervisor, Great Falls (WU–Am, N); Wellman Holbrook, deputy forest supervisor; H. J. A. Grossman, forest assistant.

Kootenai.—DORR SKEELS, forest supervisor, Libby (WU–Am, GN); William A. Raymond, deputy forest supervisor; Webster H. Ransom, William C. Latane, and John C. Ketridge, forest assistants.

Lewis and Clark.—SCOTT LEAVITT, forest supervisor, Chouteau (WU via Collins–Am, GN via Collins); A. A. Saunders, forest assistant.

Lolo.—ELERS KOCH, forest supervisor, Missoula (WU, P–Am, N); William W. Bennett, forest assistant.

Madison.—CLIFTON W. HUDSON, forest supervisor, Sheridan (WU–Am, N); Ernest F. Jones, forest assistant.

Missoula.—RUTLEDGE PARKER, forest supervisor, Missoula (WU, P–Am, N); Fay G. Clark, forest assistant.

Sioux.—See South Dakota.

NORTH DAKOTA.

Dakota.—C. A. BALLINGER, forest supervisor, Camp Crook, S. Dak. (WU via Bellefourche–Am via Bellefourche); Kenneth D. Swan, forest assistant.

SOUTH DAKOTA.

Sioux.—C. A. BALLINGER, forest supervisor, Camp Crook (WU via Bellefourche–Am via Bellefourche); Kenneth D. Swan, forest assistant.

WASHINGTON.

Kaniksu.—M. N. STICKNEY, forest supervisor, Newport (WU–Am, GN); Meyer H. Wolff, deputy forest supervisor; John C. De Camp, Henry W. de Nancrede, and Frederick R. Mason, forest assistants.

DISTRICT 2.

Colorado, Wyoming, South Dakota, Nebraska, and western Kansas. Office, Majestic Building, Denver, Colo.

SMITH RILEY, district forester; T. W. NORCROSS, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). GEORGE E. TROWBRIDGE, assistant to the solicitor, in charge; J. F. LAWSON, assistant to the solicitor.

ACCOUNTS.—H. I. LOVING, district fiscal agent.

OPERATION.—FRED W. MORRELL, assistant district forester.

MAINTENANCE.—F. H. CARROLL.

SILVICULTURE.—S. L. MOORE, assistant district forester.

PLANTING.—SEWARD D. SMITH.

SILVICS.—C. G. BATES.

CARL HARTLEY, consulting pathologist, Washington, D. C.

GRAZING.—J. W. NELSON, assistant district forester.

LANDS.—C. J. STAHL, assistant district forester; THOS. M. MOORMAN, assistant; THEODORE SHOEMAKER, Jr., land classification.

EXPERIMENT STATIONS.

Fremont, Pike National Forest.—F. B. NOTESTEIN, Manitou, Colo.; W. D. Hays, assistant.

Wagon Wheel Gap, Rio Grande National Forest.—PETER KEPLINGER, Wagon Wheel Gap, Colo., and H. C. Jones, of the Weather Bureau.

COLORADO.

Arapaho.—ARTHUR M. COOK, forest supervisor, Fraser (WU–Ad); Alva A. Simpson, deputy forest supervisor; Arthur T. Upson, forest assistant.

Battlement.—JOHN W. LOWELL, Jr., forest supervisor, Collbran (WU–WF, G); George Z. Mason, forest assistant.

Cochetopa.—EUGENE WILLIAMS, forest supervisor, Saguache (WU–G); Charles P. Bliss, forest assistant.

Colorado.—H. A. E. MARSHALL, forest supervisor, Fort Collins (WU–WF); Huber C. Hilton, forest assistant.

Durango.—ERNEST W. SHAW, forest supervisor, Durango (WU–G); E. S. Keithley, forest assistant.

Gunnison.—WILLIAM R. KREUTZER, forest supervisor, Gunnison (WU–WF, G); W. H. Mast, forest assistant.

Hayden.—See Wyoming.

Holy Cross.—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU–WF, G); George R. Morrison, forest assistant.

La Sal.—See Utah, District 4.

Leadville.—THEODORE SHOEMAKER, forest supervisor, Leadville (WU, P–WF, G); R. E. Clark, deputy forest supervisor; J. E. Martin, forest assistant.

Montezuma.—RESS PHILLIPS, forest supervisor, Mancos (WU–G); Gordon Parker, forest assistant.

Pike.—C. W. FITZGERALD, forest supervisor, Denver (WU, P–Ad, Am, G, US, WF); George A. Duthie, deputy forest supervisor; W. I. Hutchinson, forest assistant; Monument Nursery, Henry G. Reinsch, forest expert; W. Schrader, forest planting assistant, Monument.

Rio Grande.—A. L. SWEITZER, forest supervisor, Monte Vista (WU–G); Walter F. Bowers, deputy forest supervisor; Jay Higgins and Michael J. Sweeney, forest assistants.

Routt.—J. H. RATLIFF, forest supervisor, Steamboat Springs (WU–Ad); Ray Peck, deputy forest supervisor; P. J. Paxton, forest assistant.

San Isabel.—J. N. LANGWORTHY, forest supervisor, Westcliffe (WU–G); Albin G. Hamel, forest assistant.

San Juan.—G. P. BARD, forest supervisor, Pagosa Springs (WU–G); A. F. C. Hoffman, forest assistant.

Sopris.—JOHN MCLAREN, forest supervisor, Aspen (WU–WF, G); W. G. Baxter, forest assistant.

Uncompahgre.—HOWARD S. BUSHNELL, forest supervisor, Delta (WU–G); J. H. Ramskill, forest assistant.

White River.—JAMES A. BLAIR, forest supervisor, Meeker (WU–WF, G); Crosby A. Hoar, forest assistant.

KANSAS.

Kansas.—B. R. H. D'ALLEMAND, forest supervisor, Garden City (WU, P–WF); Garden City Nursery.

NEBRASKA.

Nebraska.—H. EARL FRENCH, forest supervisor, Halsey (WU–Ad); Fred R. Johnson, forest assistant; Halsey Nursery.

SOUTH DAKOTA.

Black Hills.—PAUL D. KELLETER, forest supervisor, Deadwood (WU–Ad, Am); William Wiehe, deputy forest supervisor.

Harney.—R. P. IMES, forest supervisor, Custer (WU–Ad); Richard A. Phillips and Percy T. Smith, forest assistants.

WYOMING.

Bighorn.—E. N. KAVANAGH, forest supervisor, Sheridan (WU–Ad); Andrew G. Stockwell, deputy forest supervisor; Harold C. Clark, forest assistant.

Bonneville.—L. E. COOPER, acting forest supervisor, Dubois (WU–Am).

Bridger.—H. C. HALL, forest supervisor, Pinedale (WU–Am).

Hayden.—JAMES BLACKHALL, forest supervisor, Encampment (WU, P–Am); Roy S. Wheeler, forest assistant.

Medicine Bow.—C. M. GRANGER, forest supervisor, Laramie (WU, P–Am); R. A. Stretch, deputy forest supervisor; D. S. Jeffers, forest assistant.

Shoshone.—R. W. ALLEN, forest supervisor, Cody (WU–Ad); Fred B. Agee, deputy forest supervisor; Myron W. Thompson, forest assistant.

Sundance.—LOUIS KNOWLES, forest supervisor, Sundance (WU–Ad, Am).

Washakie.—C. G. POOLE, forest supervisor, Lander (WU–Am).

DISTRICT 3.

Arizona, Arkansas, Florida, New Mexico, and Oklahoma. Office, Luna-Otero Building, Albuquerque, N. Mex.

A. C. RINGLAND, district forester; T. W. NORCROSS, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). D. F. McGowan, assistant to the solicitor, in charge; J. O. Seth, assistant to the solicitor.

ACCOUNTS.—J. J. Duffy, district fiscal agent.

OPERATION.—A. O. Waha, assistant district forester; A. S. Peck, assistant district forester; J. F. Mullen, deputy forest supervisor, in charge improvement and protection.

Maintenance.—H. B. Hammond.

SILVICULTURE.—A. B. Recknagel, assistant district forester; Joseph C. Kircher, forest examiner; Athol A. Wynne, lumberman, in charge timber sale inspection and check-scaling, Arizona and New Mexico; Quincy Randles, forest assistant, in charge timber sale inspection and check-scaling, Arkansas.

GRAZING.—John Kerr, assistant district forester; R. R. Hill, in charge reconnaissance.

LANDS.—Frank C. W. Pooler, assistant district forester; Ralph C. Huey, deputy forest supervisor in charge La Fourche land classification project on Arkansas Forest.

EXPERIMENT STATION.

Fort Valley, Coconino National Forest.—G. A. Pearson, Flagstaff, Ariz.; Alexander J. Jaenicke, forest assistant.

NATIONAL FORESTS.

ARIZONA.

Apache.—John D. Guthrie, forest supervisor, Springerville (WU, P-WF); Frederick Winn, deputy forest supervisor; Clifford W. McKibbin, forest assistant.

Chiricahua.—A. H. Zachau, forest supervisor, Portal, via Rodeo, N. Mex. (WU, P-WF); Frank J. Mosher, forest assistant.

Coconino.—Willard M. Drake, forest supervisor, Flagstaff (WU, P-WF); Thomas E. McCullough and Clarence F. Korstian, forest assistants.

Coronado.—Robert J. Selkirk, forest supervisor, Tucson (WU-WF).

Crook.—T. T. Swift, forest supervisor, Safford (WU-WF).

Prescott.—C. H. Hinderer, forest supervisor, Prescott (WU-WF); J. C. McNelty, deputy forest supervisor.

Sitgreaves.—Chas. H. Jennings, acting forest supervisor, Snowflake (WU, P-WF).

Tonto.—R. G. Willson, forest supervisor, Roosevelt (WU-WF); C. C. Hall, forest supervisor, on grazing detail.

Tusayan.—Harold Greene, acting forest supervisor, Williams (WU, P-WF); Gordon T. Backus, forest assistant.

Zuni.—See New Mexico.

ARKANSAS.

Arkansas.—S. A. CHAPPELL, forest supervisor, Hot Springs (WU, P–WF, P); C. J. Heller and Raymond E. Hopson, forest assistants.

Ozark.—FRANCIS KIEFER, forest supervisor, Harrison (WU–WF); W. F. Hill, deputy forest supervisor; L. L. James and Robt. S. Wallace, forest assistants.

FLORIDA.

Florida.—I. F. ELDREDGE, forest supervisor, Pensacola (WU, P); John W. Spencer, forest assistant.

NEW MEXICO.

Alamo.—R. F. BALTHIS, forest supervisor, Cloudcroft (WU–WF).

Carson.—ALDO LEOPOLD, forest supervisor, Tres Piedras (WU–G); Raymond E. Marsh, deputy forest supervisor.

Chiricahua.—See Arizona.

Datil.—W. H. GODDARD, forest supervisor, Magdalena (WU, P–WF); Robert L. Deering, deputy forest supervisor; H. Basil Wales, forest assistant.

Gila.—DON P. JOHNSTON, forest supervisor, Silver City (WU, P–WF); Ausburn H. Douglas, deputy forest supervisor; Herman Krauch, forest assistant; P. P. Pitchlynn, reconnaissance; Fort Bayard Nursery, H. C. Turner, forest planting assistant.

Jemez.—FRANK E. ANDREWS, forest supervisor, Santa Fe (WU, P–WF).

Lincoln.—J. A. KINNEY, forest supervisor, Capitan (WU–WF).

Manzano.—HUGH G. CALKINS, forest supervisor, Albuquerque (WU, P–WF); J. Wilbur O'Byrne, forest assistant.

Pecos.—THOS. R. STEWART, forest supervisor, Cowles (WU–WF via Glorieta); Ira T. Yarnall, forest assistant; Las Gallinas Nursery, H. D. Burrall, examiner.

Zuni.—HUGH G. CALKINS, forest supervisor, Albuquerque (WU, P–WF); J. Wilbur O'Byrne, forest assistant.

OKLAHOMA.

Wichita.—FRANK RUSH, game warden, in charge, Cache (WU–WF).

DISTRICT 4.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Forest Service Building, Ogden, Utah.

E. A. SHERMAN, district forester; J. P. MARTIN, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). R. F. FEAGANS, assistant to the solicitor, in charge.

ACCOUNTS.—Q. R. CRAFT, district fiscal agent.
OPERATION.—A. C. MCCAIN, assistant district forester.
MAINTENANCE.—FELIX T. MOORE.
BOUNDARIES.—R. V. R. REYNOLDS.
SILVICULTURE.—O. M. BUTLER, assistant district forester; D. F. SEERY, lumberman; D. M. LANG, scaler.
PLANTING.—J. M. FETHEROLF.
SILVICS.—E. R. HODSON.
GRAZING.—HOMER E. FENN, assistant district forester.
LANDS.—T. C. HOYT, assistant district forester; R. E. GERY, assistant.
SUPPLY DEPOT.—A. M. SMITH, property clerk.
PROPERTY AUDIT.—J. G. FALCK, property auditor.

EXPERIMENT STATION.

Utah, Manti National Forest.—FORMAN T. MCLEAN, Ephraim, Utah.

NATIONAL FORESTS.

ARIZONA.

Dixie.—See Utah.
Kaibab.—JAMES L. PELTON, forest supervisor, Kanab, Utah (WU–WF).

IDAHO.

Boise.—E. GRANDJEAN, forest supervisor, Boise (WU–Am); M. S. Benedict, deputy forest supervisor; Dana Parkinson, forest assistant.
Cache.—See Utah.
Caribou.—G. G. BENTZ, forest supervisor, Montpelier (WU–Am); J. H. Hull, forest assistant.
Challis.—DAVID LAING, forest supervisor, Challis (WU–Am).
Idaho.—HERBERT GRAFF, forest supervisor, McCall (WU–P); Hubert C. Williams, deputy forest supervisor.
Lemhi.—C. I. HUDDLE, forest supervisor, Mackay (WU–Am); S. B. Arthur, deputy forest supervisor; E. C. Sanford, forest assistant.
Minidoka.—WILLIAM MCCOY, forest supervisor, Oakley (WU–Am).
Palisade.—FRANK J. RYDER, forest supervisor, St. Anthony (WU–Am); Lucas W. Hastings, deputy forest supervisor; C. F. Evans, forest assistant.
Fayette.—GUY B. MAINS, forest supervisor, Emmett (WU–Am); Lawrence J. Phelan, deputy forest supervisor; Lee O. Miles and W. N. Sparhawk, forest assistants.
Pocatello.—J. F. BRUINS, forest supervisor, Pocatello (WU–Am); Pocatello Nursery, Arthur P. Say, forest ranger.

Salmon.—JOHN A. PEARSON, forest supervisor, Salmon (WU–Am); Herman Work, forest assistant.

Sawtooth.—C. N. WOODS, forest supervisor, Hailey (WU–Am); Herbert G. McPheters, deputy forest supervisor; Samuel B. Locke, deputy forest supervisor; T. F. Heineman, forest assistant.

Targhee.—CHESTER B. MORSE, forest supervisor, St. Anthony (WU–Am); Charles A. Beam, deputy forest supervisor; S. S. Stewart and J. W. Stokes, forest assistants

Weiser.—J. B. LAFFERTY, forest supervisor, Weiser (WU–Am); W. M. Campbell, deputy forest supervisor; A. E. Oman, forest assistant.

NEVADA.

Humboldt.—C. SYDNEY TREMEWAN, forest supervisor, Gold Creek (WU–WF).

Moapa.—THOMAS J. COLLINS, forest supervisor, Austin (WU–Am).

Nevada.—GEO. C. THOMPSON, forest supervisor, Ely (WU-WF); W. B. Rice, forest assistant.

Ruby.—JAMES M. RYAN, forest supervisor, Lamoille (WU–WF).

Santa Rosa.—W. W. BLAKESLEE, forest supervisor, Paradise.

Toiyabe.—THOMAS J. COLLINS, forest supervisor, Austin (WU, P–WF); R. D. Garver, forest assistant.

UTAH.

Ashley.—W. M. ANDERSON, forest supervisor, Vernal (WU–WF); Lester E. Hitchcock, forest assistant.

Cache.—CLINTON G. SMITH, forest supervisor, Logan (WU–Am); J. W. Humphrey, deputy forest supervisor; E. C. Shepard, forest assistant.

Dixie.—JOHN RAPHAEL, forest supervisor, St. George (WU–WF).

Fillmore.—WM. HURST, forest supervisor, Beaver (WU–WF).

Fishlake.—CARL B. ARENTSON, forest supervisor, Salina (WU–WF); D. A. Arrivee, forest assistant.

La Sal.—HENRY A. BERGH, forest supervisor, Moab (WU–WF).

Manti.—A. W. JENSEN, forest supervisor, Ephraim (WU–WF); Ernest Winkler, deputy forest supervisor; J. C. Roak, forest assistant.

Minidoka.—See Idaho.

Nebo.—DAN S. PACK, forest supervisor, Nephi (WU–WF).

Pocatello.—See Idaho.

Powell.—GEO. H. BARNEY, forest supervisor, Escalante (WU–WF).

Sevier.—O. C. SNOW, forest supervisor, Panguitch (WU–WF).

Uinta.—W. I. PACK, forest supervisor, Provo (WU–WF); J. Carl Allred, deputy forest supervisor; Nils B. Eckbo, forest examiner; Uinta Nursery, Asa L. Brower and F. S. Baker, forest assistants.

Wasatch.—E. H. CLARKE, forest supervisor, Salt Lake City (WU, P–Am, WF); S. E. Bower, forest assistant; Wasatch Nursery, N. J. Fetherolf, forest planting assistant.

WYOMING.

Ashley.—See Utah.
Caribou.—See Idaho.
Palisade.—See Idaho.
Targhee.—See Idaho.
Teton.—R. E. MILLER, forest supervisor, Jackson (WU–Am); H. B. Maris, forest assistant.
Wyoming.—JAMES E. JEWELL, forest supervisor, Afton (WU–Am); John E. Ingram, forest assistant.

DISTRICT 5.

California and southwestern Nevada. Office, First National Bank Building, San Francisco, Cal.

COERT DUBOIS, district forester; WALTER L. HUBER, district engineer; J. LEROY MATHIAS, assistant to district engineer; CLARENCE WILEY, inspector of records.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge; MAURY CURTIS, assistant to the solicitor.

ACCOUNTS.—F. C. THOMPSON, district fiscal agent.

OPERATION.—ROY HEADLEY, assistant district forester; WM. C. HODGE, Jr., inspector of fire-protection plans.

MAINTENANCE.—F. H. SMITH.

SILVICULTURE.—T. D. WOODBURY, assistant district forester; SWIFT BERRY, forest examiner.

LOUIS MARGOLIN, forest examiner, reconnaissance.

SILVICS.—J. A. MITCHELL and L. T. LARSEN, forest assistants.

RALPH HOPPING, forest examiner, insect control.

E. P. MEINECKE, consulting pathologist; J. T. BOYCE, scientific assistant, San Francisco, Cal.

GRAZING.—JOHN H. HATTON, assistant district forester.

LANDS.—L. A. BARRETT, assistant district forester; CHAS. S. BROTHERS, assistant; land classification—S. N. STONER, forest examiner, in charge of district; J. O. MORROW and P. L. DAY, forest examiners in charge of field parties.

PRODUCTS.—C. STOWELL SMITH, assistant district forester, in charge; C. A. KUPFER, forest assistant; PERCY R. HICKS, engineer in wood preservation; GEO. M. HUNT, assistant chemist in forest products, San Francisco, Cal.

EXPERIMENT STATION.

Feather River, Plumas National Forest—HAROLD H. GREENAMYRE, forest assistant, in charge, Quincy, Cal.

FOREST INSECT FIELD STATION.

(Bureau of Entomology, Branch of Forest Insect Investigations.)

Station 5, Placerville, Cal.—H. E. BURKE, entomological assistant, in charge.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P–WF); Edward N. Munns, forest assistant, San Bernardino.

California.—D. P. GODWIN, forest supervisor, Willows (P–WF); B. H. Mace, deputy forest supervisor; S. W. Strothman, forest assistant.

Cleveland.—H. N. WHEELER, forest supervisor, San Diego (WU, P–WF).

Eldorado.—EVAN W. KELLEY, forest supervisor, Placerville (WU–WF); George W. Lyons, forest assistant; J. T. Noddin, forest ranger, reconnaissance.

Inyo.—A. H. HOGUE, forest supervisor, Bishop (WU–WF); Chas. H. Edwards, forest assistant.

Kern.—W. J. RUSHING, forest supervisor, Bakersfield (WU–WF); Neal T. Childs, forest assistant.

Klamath.—W. B. RIDER, forest supervisor, Yreka (WU–WF); J R. Hall, deputy forest supervisor; Douglas K. Noyes, forest assistant.

Lassen.—L. A. H. KLING, forest supervisor, Red Bluff (P–WF); Shirley W. Allen, forest examiner; R. H. Boerker, forest assistant.

Modoc.—C. E. RACHFORD, forest supervisor, Alturas (P–WF); Vernon L. Bonner, deputy forest supervisor; Belknap C. Goldsmith, forest assistant.

Mono.—See Nevada.

Monterey.—N. H. SLOANE, acting forest supervisor, Arbolado (WU, Monterey–WF, Monterey).

Plumas.—D. N. ROGERS, forest supervisor, Quincy (WU, Keddie, Cal.–G); W. G. Durbin, deputy forest supervisor; R. S. Maddox and George R. Orr, forest assistants; J. C. Elliott and Patrick Kennedy, lumbermen, reconnaissance.

Santa Barbara.—W. M. SLOSSON, forest supervisor, Santa Barbara (P–WF); H. G. Merrill, deputy forest supervisor; W. M. Moore, forest assistant.

Sequoia.—ALLAN B. PATTERSON, forest supervisor, Hot Springs, Tulare County (WU via Ducor–WF); S. W. Wynne, deputy forest supervisor.

Shasta.—R. F. HAMMATT, forest supervisor, Sisson (P–WF); M. R. Tillotson, deputy forest supervisor; Stewart B. Show and Edward I. Kotok, forest assistants; Pilgrim Creek Nursery, Fred W. Graham, assistant forest ranger, in charge, McCloud.

Sierra.—P. G. REDINGTON, forest supervisor, Northfork (WU via Friant–WF, Friant); M. A. Benedict, deputy forest supervisor; Ernest G. Dudley and Cary Hill, forest assistants; C. H. Ensign, lumberman, reconnaissance.

Stanislaus.—R. W. AYRES, forest supervisor, Sonora (WU–WF); T. C. West, deputy forest supervisor; J. V. Wulff, forest assistant.

Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU–WF); M. B. Pratt, deputy forest supervisor; K. Mills and Reese W. Taylor, forest assistants.

Trinity.—W. A. HUESTIS, forest supervisor, Weaverville (WU–WF); J. D. Coffman, deputy forest supervisor; Ernst V. Jotter and O. M. Evans, forest assistants.

NEVADA.

Eldorado.—See California.

Inyo.—See California.

Mono.—WM. M. MAULE, forest supervisor, Gardnerville (WU–WF); F. A. Wegner, forest assistant.

Tahoe.—See California.

DISTRICT 6.

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

GEO. H. CECIL, district forester; W. E. HERRING, district engineer.

LAW.—Office of the solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge; EARL C. ARNOLD, assistant to the solicitor.

ACCOUNTS.—A. H. COUSINS, district fiscal agent.

OPERATION.—C. H. FLORY, assistant district forester.

MAINTENANCE.—SHIRLEY BUCK.

SILVICULTURE.—F. E. AMES, assistant district forester; C. S. JUDD, assistant district forester; W. H. GIBBONS, investigation of logging costs; W. T. ANDREWS, lumberman; EDWIN C. ERICKSON and L. A. NELSON, scalers; T. J. STARKER, reconnaissance.

PLANTING.—J. F. KÜMMEL.

SILVICS.—T. T. MUNGER.

Studies, E. J. Hanzlik, R. M. Evans, J. F. Pernot, Portland.

GRAZING.—T. P. MACKENZIE, assistant district forester.

LANDS.—C. J. BUCK, assistant district forester; land classification, J. Roy Harvey, in charge; A. J. Strahorn, soil expert.

PRODUCTS.—J. B. KNAPP, assistant district forester, in charge; H. B. Oakleaf, C. W. Dunning, Portland; O. P. M. Goss, C. W. Zimmerman, H. P. Wyckoff, Cornelius Barry, Seattle, Wash.

FOREST INSECT FIELD STATION.

(Bureau of Entomology, Branch of Forest Insect Investigations.)

Station 6, Ashland, Oreg.—W. D. EDMONSTON, entomological assistant, in charge.

NATIONAL FORESTS.

ALASKA.

Chugach.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU–AP, Am); Thos. M. Hunt, deputy forest supervisor; Bruce Hoffman, forest assistant.

Tongass.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU–AP, Am).

CALIFORNIA.

Crater.—See Oregon.

Siskiyou.—See Oregon.

OREGON.

Cascade.—C. R. SEITZ, forest supervisor, Eugene (WU, P–WF).

Crater.—M. L. ERICKSON, forest supervisor, Medford (WU, P–WF); H. D. Foster, William E. White, and O. W. Hodgman, forest assistants.

Deschutes.—MELVIN L. MERRITT, forest supervisor, Bend (WU, PT & T–Ad via Opal City, GN via Opal City).

Fremont.—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev.–P, WF); Nelson J. Billings, deputy forest supervisor; Norman G. Jacobson, forest assistant.

Klamath.—See California.

Malheur.—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker City–Am, WF via Baker City); D. B. Reynolds, deputy forest supervisor.

Minam.—H. W. HARRIS, forest supervisor, Wallowa (WU–Am); Ephraim Barnes, deputy forest supervisor.

Ochoco.—HOMER ROSS, forest supervisor, Prineville (WU, PT & T–Am); Allen Hodgson, deputy forest supervisor.

Oregon.—T. H. SHERRARD, forest supervisor, Portland (WU, P–Am, WF, N); Ralph S. Shelley, deputy forest supervisor; W. B. Osborne, forest assistant.

Paulina.—W. W. CRYDER, forest supervisor, Crescent (WU, PT & T–Ad, GN via Opal City).

Santiam.—F. H. BRUNDAGE, forest supervisor, Albany (WU, P–WF).

Siskiyou.—N. F. MACDUFF, forest supervisor, Grants Pass (WU, P–WF); H. Haefner, forest assistant.

Siuslaw.—A. E. COHOON, forest supervisor, Eugene (WU, P–WF); David E. Fitton, deputy forest supervisor; H. M. Johnson, forest assistant.

Umatilla.—HUGH B. RANKIN, forest supervisor, Heppner (WU, P–AM); G. A. Bright, forest assistant.

Umpqua.—S. C. BARTRUM, forest supervisor, Roseburg (WU, P–WF); George Bonebrake, deputy forest supervisor; Arthur Kerr, forest assistant.

Wallowa.—H. W. HARRIS, forest supervisor, Wallowa (WU–Am).

Wenaha.—See Washington.

Whitman.—HENRY IRELAND, forest supervisor, Sumpter (WU via Baker City–Am, WF via Baker City); E. H. McDaniels, deputy forest supervisor; Harold P. Gilkey, B. Frank Heintzleman, Lawrence Pagter, and Hamilton M. Coan, forest assistants.

WASHINGTON.

Chelan.—G. W. MILHAM, forest supervisor, Chelan (PT & T–Am, GN via Wenatchee).

Columbia.—H. O. STABLER, forest supervisor, Portland, Oreg. (WU, P–Am, WF, N); W. W. G. Hastings, deputy forest supervisor; A. R. Wilcox, Lage Wernstedt, and C. P. Willis, forest assistants.

Colville.—C. C. REID, forest supervisor, Republic (WU, P–Am, GN); F. W. Cleator, deputy forest supervisor; Edward W. Headsten, forest assistant.

Okanogan.—H. M. HALE, forest supervisor, Okanogan (PT & T–Am, GN via Wenatchee); V. V. Harpham, deputy forest supervisor.

Olympic.—R. L. FROMME, forest supervisor, Olympia (WU, P–Am, GN, N); A. A. Parker, deputy forest supervisor.

Rainier.—G. F. ALLEN, forest supervisor, Tacoma (WU, P–Am, N); P. T. Harris, deputy forest supervisor.

Snoqualmie.—STANTON G. SMITH, forest supervisor, Seattle (WU, P–N, GN, WF); Lewis A. Treen, jr., deputy forest supervisor; Walter H. Leve and Alexander G. Jackson, forest assistants.

Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P–Am, GN, N).

Wenaha.—J. M. SCHMITZ, forest supervisor, Walla Walla (WU–Am, N).

Wenatchee.—A. H. SYLVESTER, forest supervisor, Leavenworth (WU–Am, GN); E. J. Fenby, forest assistant.

SERVICE CHANGES.

APPOINTED.

FORESTER.—Dendrology: Ray G. Light, assistant in xylotomy.

PRODUCTS.—Washington office: Stanley L. Wolfe and Harry S. Davis, statisticians in forest products; Eugene L. Horne, collaborator.

ACQUISITION.—Herman L. Tucker, examiner of surveys; Jacon S. Kaplan, forest assistant.

DISTRICT 1.—Operation: Assistant forest rangers—James C. Friend, Absaraka; Alonzo H. Ott, Deerlodge; Charles Larson, Helena; John D. Brooks, Kootenai; Fay G. Clark, forest assistant, St. Joe; Ralph W. Smith, forest clerk, Beaverhead; Ethel A. Higgins, clerk (stenographer and typewriter). District office: Gardner I. Porter, clerk (chief of maintenance); William F. Perrine, topographic draftsman; Helen M. West, clerk (stenographer and typewriter).

DISTRICT 2.—Operation: Assistant forest rangers—Ira L. Hazelton, Felix Newton, Walter Osborn, Black Hills; J. G. Blaine, Harney; Walter F. Baumdicker, Leadville; John W. Evans, Medicine Bow; Fred W. Ryden, Montezuma; Frank J. Cox; clerks (stenographers and typewriters)—B. Richard Ferris, Nebraska; Edward A. Rowell, Routt; Edith L. White, Uncompahgre; A. W. Yaich, Arapaho; Gus B. Modlish, Bighorn; Mabel L. Collins, Gunnison.

DISTRICT 3.—Operation: Hezekiah B. Hammond, clerk, district office; Audrey C. Schach, draftsman (copyist—topographic), district office; Gordon Fincannon, clerk (typewriter), Arkansas; Ophelia M. Celaya, clerk (stenographer and typewriter), Coconino; Alice H. Chapman, clerk (stenographer and typewriter), Gila; Charles W. Craig, clerk (stenographer and typewriter), Sitgreaves; assistant forest rangers—Ernest J. Mead, Arkansas; Albert C. Clancy, Coconino; Jacob C. Nave, Datil; Otis E. Watson, Datil. Lands: Cora P. Cook, clerk (typewriter), district office.

DISTRICT 4.—Operation: James H. Hull, forest assistant, Targhee; assistant forest rangers—Adolph G. Hauge, Uinta; George G. Henderson and Oliver C. Lockhart, jr., Wasatch; Ryle R. Teed, Idaho Land Exchange; Roy J. Williams, forest clerk, Lemhi; Jennie L. Beringer, clerk (stenographer and typewriter), district office.

DISTRICT 5.—Operation: Edward N. Munns, forest assistant, Angeles; Oscar M. Evans, forest assistant, Trinity; Frank A. Wegner, field examiner, Mono; Ralph B. Grabill, clerk, Cleveland; clerks (stenographers and typewriters)—Emma C. Manwaring, Cleveland; Frances B. Frost, Eldorado; William L. Mayhew, Lassen; Clarence E.

Taylor, Plumas; assistant forest rangers—Grover C. Bruce, Raleigh R. Bryan, Milton D. Morris, Eldorado.

DISTRICT 6.—Operation: Claude R. Jones, assistant forest ranger, Cascade; Woodbridge Metcalf, assistant forest ranger, Snoqualmie; Will J. Sproat, field examiner, Whitman.

RESTORED TO THE ROLLS.

DISTRICT 1.—Operation: Frank H. Sayer, assistant forest ranger, Custer; Harold L. Redlingshafer, clerk, Helena; John T. Siders, assistant forest ranger, St. Joe.

DISTRICT 2.—Operation: Joseph B. Hull, assistant forest ranger, Arapaho.

DISTRICT 3.—Silviculture: Arthur B. Recknagel, assistant district forester, district office.

DISTRICT 4.—Property audit: Mary L. Walker, clerk. District office: Dorris Head, clerk (stenographer and typewriter).

DISTRICT 5.—Operation: Thomas T. Dinsmore, assistant forest ranger, Santa Barbara; Claude K. Barker, assistant forest ranger, Sierra.

DISTRICT 6.—Operation: Frank B. Kellogg, forest assistant, Cascade; assistant forest rangers—Joe A. Brinkley, Deschutes; William Sethe, Rainier; Jesse M. Mann, Santiam; Joseph L. MacKechnie, Siuslaw. Lands: Annie L. Stewart, clerk (stenographer and typewriter), district office.

REINSTATED.

DISTRICT 1.—Operation: Frank W. Syler, assistant forest ranger, Flathead.

DISTRICT 2.—Operation: Thomas M. Moorman, clerk (law), district office.

DISTRICT 3.—Operation: Assistant forest rangers—Ben F. Vaughan, Ozark; George K. Pradt, Zuni.

DISTRICT 4.—Operation: Guy C. Hendrickson, forest clerk, Sawtooth.

DISTRICT 5.—Operation: John P. Yost, assistant forest ranger, Eldorado. Silviculture: Louis Margolin, forest examiner, district office.

DISTRICT 6.—Operation: Dee Wright, assistant forest ranger, Oregon.

CHANGE IN DESIGNATION.

FORESTER.—Editor: Herbert A. Smith, from expert and editor to editor.

OPERATION.—Geography: H. S. Meekham, from forest expert to civil engineer; Grant Bruce, from forest agent to statistician.

SILVICULTURE.—Austin Cary, from expert to forest examiner.

PRODUCTS.—Laboratory: M. C. Jensen, from forest agent to laboratory assistant.

ACQUISITION.—C. D. Cushman, from expert to lumberman.

DISTRICT 1.—Operation: Ulysses S. Swartz, agent to timber cruiser.

DISTRICT 2.—Operation: Earl S. Peirce, forest assistant to deputy forest supervisor, district office.

DISTRICT 5.—Operation: William C. Hodge, jr., from expert to forest examiner, district office; Henry W. Muzzall, deputy forest ranger to assistant forest ranger, Santa Barbara.

DISTRICT 6.—Silviculture: Frank B. Kellogg, forest assistant to collaborator, district office.

TRANSFERRED.

SILVICULTURE.—Silvics: G. B. MacDonald, forest assistant, from District 4.

GRAZING.—Edward L. Greene, consulting botanist, from Bureau of Plant Industry.

PRODUCTS.—Laboratory: Harry M. Mason, jr., engineer in wood preservation, from District 2; Norman de W. Betts, engineer in forest products, from District 2. Washington office: Jesse C. Nellis to Bureau of Plant Industry.

ACQUISITION.—H. L. Johnson, forest assistant, from District 3.

DISTRICT 1.—Operation: Forest assistants—Donald Bruce, from Coeur d'Alene to district office; H. J. A. Grossman, from Priest River Experiment Station to Jefferson; John E. Keach, from Helena to St. Joe; Fay G. Clark, from St. Joe to Missoula; Gardner I. Porter, forest ranger, from Nezperce to clerk, district office; Harry Holverson, assistant forest ranger, from Sioux to Nezperce.

DISTRICT 2.—Operation: Roy Smith, forest examiner, Harney to district office; Percy T. Smith, forest assistant, Black Hills to Harney; Michael J. Sweeney, forest assistant, Medicine Bow to Harney to Rio Grande; Ira T. Starbuck, forest ranger, district office to Holy Cross; William M. Darley, forest ranger, Routt to Rio Grande; James C. Jensen, forest ranger, Hayden to Black Hills; assistant forest rangers—James P. Reddick, Medicine Bow to Harney; Kenson J. Helmick, Holy Cross to Pike; Henry C. Langston, Battlement to White River; clerks (stenographers and typewriters)—Margaret N. Hendricks, White River to Routt; Jennie R. Edwards, Sopris to district office; Ralph B. Grabill, Routt to District 5; Margaret Cash, district office to Sopris; forest clerks—Bernard M. Shoemaker, Leadville to Holy Cross; Clarence D. Moir, District 4 to Medicine Bow; Harry H. Power, Medicine Bow to District 4. Products: Norman de Witt Betts, engineer in forest products, Boulder to Madison, Wis.; Harry M. Mason, jr., engineer in wood preservation, Boulder to Madison, Wis.

DISTRICT 3.—Operation: Frank C. Douglas, Arkansas to Office of Solicitor; Ralph C. Huey, deputy forest supervisor, Ozark to Arkansas; Elliott S. Barker, forest ranger, Pecos to Carson; Edward A. Pfefferle, forest clerk, Gila to Carson; Herbert B. Fay, forest ranger, Gila to

Coconino; Claude E. Malbone, assistant forest ranger, Jemez to Coconino; J. Wilbur O'Byrne, forest assistant, Coconino to Zuni; William F. Hill, deputy forest supervisor, Florida to Ozark; Ira T. Yarnall, forest assistant, Carson to Pecos; Richard H. Kennerdell, assistant forest ranger, Tusayan to Prescott; Stanton G. Smith, forest supervisor, to District 6; Robert R. Moak, assistant forest ranger, Arkansas to Zuni. Silviculture: Quincy Randles, forest assistant, Coconino to district office.

District 4.—Operation: Forest assistants—Asa L. Brower, Uinta to Silviculture, district office; Charles F. Evans, Boise to Palisade; Edwin C. Shepard, Payette to Cache; James H. Hull, Targhee to Caribou; Earl C. Sanford, Payette to Lemhi; Forman T. McLean, Manti to Utah Eperiment Station; Frederick S. Baker, Manti to Uinta; Samuel E. Bower, Manti to Wasatch; William Benjamin Rice, Payette to Nevada; Raymond D. Garver, Payette to Toiabe; Thomas F. Heineman, Payette to Sawtooth; forest rangers—Julius G. Maelzer, Idaho Land Exchange to Lemhi; John D. Alsop, Teton to Dixie; assistant forest rangers—John A. Wood, Idaho Land Exchange to Challis; Archer Huff, Ashley to Kaibab; Milton S. Rogerson, Wasatch to Kaibab; Thomas J. Haycock, Uinta to Kaibab; Clayton F. Brower, Sawtooth to Lemhi; George G. Henderson, Wasatch to Pocatello; forest clerks—James E. Scott, Ashley to Boise; Sidney C. Scribner, Idaho to district office; Clarence D. Moir, Salmon to District 2 (Medicine Bow); Harry H. Power, District 2 (Medicine Bow) to Salmon; David A. West, district office to Wasatch. Lands: Mary M. Childs, land law clerk, District 4 to District 7.

District 5.—Operation: Lewis W. Hess, clerk, from Klamath to district office.

District 6.—Operation: Frederick H. Brundage, forest supervisor, Washington to Santiam; Stanton G. Smith, forest supervisor, District 3 to District 6 (Snoqualmie); Lorence A. Nelson, scaler, Snoqualmie to district office; Florence A. Johnson, clerk (stenographer and typewriter), Snoqualmie to district office; assistant forest rangers—Mortimer J. Brown, Rainier to Columbia; H. Erbine Newman, Santiam to Columbia; William J. Nichols, Paulina to Columbia; Harold E. Smith, Deschutes to Columbia; Ernest Jameson, district office to Okanogan. Silviculture: Frank B. Kellogg, collaborator, Cascade to district office; forest assistants—John F. Pernot, Products to district office; Samuel E. Robison, Whitman to district office; Thurman J. Starker, Whitman to district office. Lands: Kirk P. Cecil, assistant forest ranger, Paulina to district office. Products: Cornelius Barry, laboratory assistant, District 2 to District 6.

PROMOTED IN RANK.

District 1.—Operation: James W. Girard, forest ranger to scaler, Kaniksu. District office: Gardner I. Porter, forest ranger, to chief of maintenance.

DISTRICT 2.—Operation: Roy Smith, forest ranger to forest examiner, district office; Nelse E. Peterson, assistant forest ranger to forest ranger, Black Hills; Neil Campbell, forest guard to assistant forest ranger, Durango; Harry E. Miller, assistant forest ranger to forest ranger, Shoshone.

DISTRICT 3.—Operation: Raymond E. Marsh, forest assistant to deputy forest supervisor, Carson.

DISTRICT 5.—Operation: Assistant forest rangers to forest rangers—George M. Hayes, Plumas; Chester E. Jordan, Sierra; Henry Everest, Trinity; Benjamin H. Mace, forest ranger to deputy forest supervisor, California.

DISTRICT 6.—Operation: Joe A. Graham, assistant forest ranger to forest ranger, Oregon.

LEAVE WITHOUT PAY.

ACQUISITION.—R. C. Staebner, forest assistant; J. L. Pritchard, forest examiner.

DISTRICT 1.—Operation: Assistant forest rangers—Henry R. Snider, Clearwater; George W. Burke, Coeur d'Alene; Frank H. Sayer, Custer; James G. Danilson, Kaniksu; Malcolm K. Kedzie, Kootenai; Price Townsend, Lewis and Clark; Louis H. Foote, Lolo; Howard R. Flint, Minnesota; Eugene Langdon, Nezperce; John L. Cobbs, forest assistant, Flathead; Oral J. Berry, forest ranger, Missoula; Stella G. Baird, clerk (stenographer and typewriter), Kaniksu. District office: Clerks (stenographers and typewriters)—Mayme E. Butler and Hilda O. Hedsted.

DISTRICT 3.—Accounts: Wm. Rose, clerk, district office. Operation: Drue Underwood, assistant forest ranger, Apache; Lillian M. Sutherland, clerk (forest), Carson; Clarence F. Korstian, forest assistant, Coconino; James J. Woolsey, assistant forest ranger, Crook; Lafayette A. Phillips, assistant forest ranger, Tusayan.

DISTRICT 4.—Operation: James D. McCall, forest ranger, Idaho; William M. Mace, assistant forest ranger, Targhee.

DISTRICT 5.—Operation: Arthur Bartlett, deputy forest supervisor, California; assistant forest rangers—William R. Darling and Matthew J. Keegan, Cleveland; Grover C. Bruce, Edward William Fessel, Milton D. Morris, and John P. Yost, Eldorado; Marion J. Brown, Inyo; Paul J. Robinson, Sequoia; John W. Wear, Stanislaus.

DISTRICT 6.—Operation: Stanley A. Anderson, clerk, Malheur; John C. Kuhns, jr., assistant forest ranger, Umpqua; Edward H. Lough, assistant forest ranger, Umpqua. Products: Halsey P. Wyckoff, assistant engineer in forest products, district office (Seattle laboratory).

FURLOUGHED.

DISTRICT 1.—Operation: Assistant forest rangers—George Grigg and Henry Lampe, Absaroka; William H. Morse, Beartooth; Frederick W.

Schumacher, Beaverhead; George A. Bignell, Clyde C. Carpenter, Marion E. Heikes, and Charles A. Strodtbeck, Blackfeet; James L. Adams, Cabinet; Harvey Fearn, Coeur d'Alene; Ralph T. Abbott, Custer; Joe D. Morgan and Will M. Pratt, Gallatin; David C. Huson, Kootenai; Sidney C. Armitage, Lolo; Harry A. Goodale, Michigan; Milo M. Hoyt, Missoula; James Campbell, Mark F. Kelley, W. Carl Loughborough, Fritjhof J. Lundstrom, Claude C. Parker, and Harvey W. Phillips, Pend Oreille; Elmer A. O'Callaghan, St. Joe. District office: John C. Beebe, junior engineer.

District 2.—Operation: Assistant forest rangers—Albert L. Fairhurst, Colorado; Joseph B. Hull, Sopris; Thomas O. Patterson, Battlement; Stephen E. Doering, Cochetopa; Neil Campbell, Durango; Jacob J. Ellenberger, Hayden; Maitland E. Bradley, Sopris.

District 4.—Operation: Assistant forest rangers—Marion T. Johnson, Dan Nielson, and Alfred Toland, Caribou; John J. Boyle and Lee Roy Tracht, Challis; William Scott Barton, Fillmore; Charles M. De Witt and Jesse W. Kimball, Idaho; Thomas N. Hein, Lemhi; Matthew Bowers, Claude Kelsen, and Joseph L. Thorpe, Manti; Clarence E. Favre and John W. Davis, Payette; Hewitt B. Emigh and Marion E. Mahoney, Salmon; Forest Turner and Guy S. Heath, Sawtooth; J. Robert Logan and John F. Woodman, Targhee; Fred H. Betts, Samuel A. Buchanon, Clinton M. Mangun, and Louis R. Hillmon, Weiser.

District 5.—Operation: Assistant forest rangers—Raleigh R. Bryan, Eldorado; William J. Haskins, Inyo; Andrew A. Allen and Anthony E. O'Donnell, Kern; Thomas A. Lane, Leroy A. LaPaint, William B. Salstrom, Klamath; Howard Hufford, Albert W. Bramhall, Edmund M. Hufford, and William J. Spalding, Lassen; John A. Kresge, Charles O. Leonard, and William J. Lunsford, Modoc; Eugene E. Clark, William B. Duncan, William Hayes, Paul C. Thayer, John S. Thomas, Leonard P. Wygle, and Harry S. Yates, Plumas; Frank L. St. Clair, Sequoia; Bernard L. Girard, Ross A. McCloud, and John Allan Reid, Shasta; Claude K. Barker, Hugh R. Downey, Ninion E. Duncan, Robert C. McKenzie, William H. Parkinson, and Earl R. Stevenson, Sierra; John N. Lindsey and Henry J. Zimmerman, Stanislaus; Charles W. Bonta, George W. Campbell, William D. Campbell, Walter H. Coupe, Fred J. Dooley, Martin F. Hussye, Charles W. King, George M. Noyes, Lawrence E. Overmyer, George E. Poore, and Charles W. Sutcliffe, Tahoe; William X. Garrett, Francis D. Bucklew, Ivan A. Cuff, David W. Haas, Oscar O. Hays, John A. Molin, William A. Thomsen, Alva Tracy, Bruce A. Viles, and William H. Woodhams, jr., Trinity.

District 6.—Operation: Assistant forest rangers—James H. Bolen, Chelan; Raymond H. Thompson, Colville; Horace G. Whitney and Frank L. Carlson, Crater; Willard W. Lawton and Burton Oney, Deschutes; Clinton W. Combs and Gaines H. Looney, Fremont; Robert Bennett, John H. Blinn, Frederick V. Bradford, Malheur; Orville M. Gillenwater, Walter T. Morris, James W. White, Ochoco; Howard J.

Eberly and William C. Sweat, Okanogan; George W. Hutton, Olympic; Horace Berry, George R. Ledford, and Hiram R. Wilcox, Oregon; Hubert E. Derrick, Edward H. Mahn, and Luman C. Rich, Paulina; Oliver C. Klingensmith, Ed. Tittle, and Abner T. Wright, Rainier; Jesse M. Mann and Harold S. Newlins, Santian; Claude E. Greider, Joseph G. G. Morgan, and Wendell R. Whitney, Snoqualmie; Lovell E. Tipton, Umatilla; Edward E. Harpham and Otto Weaver, Umpqua; Oscar Pratt, Wallowa; James Lowden and Joseph Ridley, Washington; Reinhold A. Bottcher and George E. Stevenson, Wenaha; John S. Brender, Wenatchee; Charles F. Groom, Thomas H. Parker, and William F. Rankin, Whitman.

RESIGNED.

FORESTER.—Editor: Edwin R. Jackson, expert.

PRODUCTS.—Laboratory: McGarvey Cline, director.

ACQUISITION.—Samuel D. Sarason, examiner of surveys; Lincoln Crowell, forest assistant.

DISTRICT 1.—Operation: Assistant forest rangers—Dell Harrison, Absaroka; William F. Perrine and Thomas P. De Lano, Cabinet; James S. Garrions and Frank Tompkins, Clearwater; Wayne F. Alexander, Claud O. Houghton, Russell V. Tanner, Robert L. Hess, Kootenai; Harley M. Massie, Lewis and Clark; William V. Manring, Nezperce; William C. Bessey and William H. Rock, St. Joe; Alice Warren, forest clerk, Beaverhead; Esther Phillips, clerk (typewriter), Coeur d'Alene; Clarence L. George, forest ranger, Gallatin; Dana W. Maryott, forest ranger, Helena; Robert C. St. Clair, forest assistant, Kootenai; Le Roy R. Bock, forest clerk, Kootenai; Reuben P. Prichard, forest assistant, Lolo; John Earle Barton, forest supervisor, Pend Oreille.

DISTRICT 2.—Operation: Deputy forest supervisors—Albert H. Miller, Holy Cross; John Bentley, jr., White River; Lehigh J. Young, forest assistant, Medicine Bow; David G. Belt and Roscoe D. Wyatt, clerks, district office; clerks (stenographers and typewriters)—Anna C. Klett and Rinda J. Hardenbrook, district office; Gustave H. Gleitsmann, Bonneville; Maude F. French, Holy Cross; forest clerks—Nellie E. Dillon, district office; Everett E. Hildebrand, Harney; forest rangers—Charles C. White, Arapaho; Arthur Snyder, Bighorn; Thomas Acord, Colorado; Charles A. Sommers, Routt; assistant forest rangers—Albert L. Fairhurst, Colorado; Norman B. Price, San Juan; Philip S. Barker, Leigh W. McGrew, and Walter M. Thomas, Arapaho; Clayon Winterstein, Battlement; Alison L. Kroeger, Durango; Ford J. De Haven, Leadville; Marvin H. Sartor, Fred J. Dingler, Willsey Du Bois, Medicine Bow; George D. Criley, Rio Grande; Edward A. Parks, Routt; Edward N. Brown, Sopris; Walter T. Schmehl, Washakie.

DISTRICT 3.—Operation: Forest clerks—Lois Anderson and Earl G. Fogelgren, Coconino; Theresa G. Houghton, clerk, Coronado; Bradley M. Thomas, deputy forest supervisor, Jemez; assistant forest rangers—

William E. Carter and Edward W. Face, Gila; George S. Purteymun, Prescott. Silviculture: Ruby M. Peel, clerk (typewriter); forest assistants—George C. Morbeck and Ernest C. Pegg, Jemez; Albert E. Moss, Pecos; John S. Boyce, Coconino Experiment Station.

DISTRICT 4.—Operation: Royal F. Mathias, forest supervisor, Salmon; Irwin W. Cook, forest assistant, Targhee; forest rangers—Ulrich C. Pogge, Idaho Land Exchange; Alvin W. Garrison, Humboldt; assistant forest rangers—Edward Brown, Toiyabe; Arthur Huff, Dixie; Albert G. Richards, Lemhi; William C. Shepard, Palisade; Robert W. Strong, La Sal; Edith H. Mangun, clerk, Boise; Gretchen A. Roler, clerk (typewriter), district office; forest clerks—Walter F. Ballantyne, Nevada; Effie Jensen, Pocatello; Edgar B. King, Lemhi. Silviculture: Karl B. Friedland, clerk (stenographer and typewriter), district office.

DISTRICT 5.—Operation: Jesse Hough, forest assistant, Angeles; Howard de Forest, forest assistant, Trinity; Ruth Sisson, clerk (stenographer and typewriter), district office; Minnie B. Lamson, clerk, Cleveland; Ralph H. Browning, forest clerk, Cleveland; Francis P. Porcher, deputy forest supervisor, Lassen; James W. Patton, forest ranger, Trinity; assistant forest rangers—James G. Stanchfield, Angeles; Edmund D. Cimpher and Clarence L. Russell, California; Edward Bish and Homer O. Eaton, Cleveland; William V. Bayley and Robert E. Clark, Santa Barbara; Parker Talbot, Sequoia; William H. Love, Sierra. Silviculture: Serope Y. Parnay, forest planting assistant, Angeles.

DISTRICT 6.—Operation: Max Rothkugel, forest assistant, Oregon; Edward B. Starr, forest assistant, Santiam; William C. Neff, forest ranger, Crater; assistant forest rangers—James L. Furnish, Cascade; Erasmus E. Robertson, Columbia; John J. McClain, Minam; Acquilla E. Clark, Santiam; Thomas F. Lathrop, Wallowa; John L. Jones, Washington. Silviculture: Frank G. Miller, forest assistant, district office.

APPOINTMENT TERMINATED.

DISTRICT 1.—Operation: Whiting Alden, forest assistant, Cabinet; Frank Campbell, assistant forest ranger, Marquette; Henry F. Kottkey, assistant forest ranger, St. Joe.

DISTRICT 2.—Operation: Richard P. Hilleary, surveyor, Arapaho; Sidney H. Axmear, forest clerk, Bonneville; assistant forest rangers—Otis D. Henton, Bonneville; James A. Blatherwick, Durango; Harold S. Priestley, Montezuma.

DISTRICT 3.—Operation: Hezekiah B. Hammond, forest ranger, district office; Thomas Verner, assistant forest ranger, Jemez.

DISTRICT 5.—Operation: Forest assistants—Edward J. Yeomans, Mono; Frank A. Wegner, Clifford M. Cole, Clarence E. Taylor, Plumas; Edward H. Coulson, Tahoe; assistant forest rangers—Elmer H. McClure and Clarence A. Morris, California; Irven M. Fulkerth, Eldorado.

DISTRICT 6.—Operation: Frederick Hanson, forest ranger, Olympic; assistant forest rangers—Benjamin S. Patton, Oregon; Clarence J. Ingram, Umpqua; William H. Thompson, Whitman. Silviculture: H. P. Henry, lumberman, district office.

DISMISSED.

DISTRICT 1.—Operation: Assistant forest rangers—Grover A. Allen and Samuel F. Millsap, Coeur d'Alene; Charles S. Dennis, Kootenai.

DISTRICT 2.—Operation: Albert Hill, assistant forest ranger, Bridger.

SERVICE NOTES FOR JANUARY.

These notes contain instructions and necessary information to forest officers, and will therefore be carefully read and kept on file for reference.

LAW.

OFFICE OF THE SOLICITOR.

Law Cases in District 2—

In the case of United States *v.* Matt Watt, the defendant pleaded guilty to a grazing trespass on the Medicine Bow National Forest, and was fined in the United States District Court at Cheyenne, Wyo., $100 and costs, in all $140.14.

The case of United States *v.* O. D. Espinoza, involving a grazing trespass on the Rio Grande National Forest, was settled by the trespasser paying $48.05 actual damages, $50 punitive damages, and costs amounting to $53.95, a total of $152.

The case of United States *v.* William Greenough, involving a grazing trespass on the Shoshone National Forest, was settled by the payment of $9 actual damages, payment being made by the administrator of the defendant's estate.

The case of the United States *v.* G. M. Ohler, involving a timber trespass on the Pike National Forest, was settled by the payment by defendant of $105.82.

The case of United States *v.* W. L. Fosdick, involving a timber trespass on the San Isabel National Forest, was settled by the payment by defendant of $7.15.

S. K. Loy, indicted for leaving a fire unattended on the Medicine Bow National Forest, was sentenced by the United States District Court at Cheyenne, Wyo., to pay a fine of $5, and costs amounting to $25.54, a total of $30.54.

The case of United States *v.* Lanphere-Hinrichs, involving a timber trespass on the Black Hills National Forest, was settled by the payment by defendant of $624.14.

In the case of United States *v.* Warshauer-McClure Sheep Co., Antonio Salazar, Carlota *v.* de Archuleta et al., involving grazing trespasses on the San Juan and Rio Grande National Forests, defendants tendered $391.25 in settlement, and recommendation was made to the United States attorney that this sum be accepted in full settlement.

George W. Pierce executed a relinquishment to reservoir rights of way on the Rio Grande National Forest after the case had been referred to the Department of Justice for enforcement of forfeiture for failure to construct within five years.

Law Cases in District 3—

United States *v.* Alamogordo Lumber Co., timber trespass (civil), Alamo National Forest. Case settled on compromise for $4,000.

Juan Espinoza, grazing trespass (criminal), Crook National Forest. Criminal proceedings dropped by Attorney General with approval of Secretary of Agriculture upon payment of damages in civil case.

Esteban Flores, timber trespass (criminal), Datil National Forest. Criminal proceedings dropped upon settlement by trespasser for the value ($19.25) of the wood sold by him.

D. W. Van Zandt, fire trespass (civil), Ozark National Forest. Judgment was rendered in this case on November 27 at Little Rock, Ark., for $72.57 actual damages, and $35.45 costs.

J. W. Van Winkle, grazing trespass (civil), Alamo National Forest. Judgment was taken in this case at Santa Fe, N. Mex., on December 14 for $29.80 and the costs.

T. J. Parkinson, grazing trespass (civil), Alamo National Forest. Judgment was taken in this case at Santa Fe, N. Mex., on December 14 for $9 and costs.

McArthur Milling Co., timber trespass (civil), Ozark National Forest. Judgment was rendered in this case on December 11 at Batesville, Ark., by consent of the parties, for $90 and costs.

Law Cases in District 4—

United States *v.* John Black, jr., grazing trespass upon Powell National Forest. Defendant settled by payment of $29.72 actual damages, $25 punitive damages, and $57.80 costs; total, $112.52.

United States *v.* David Daniels, grazing trespass upon Pocatello National Forest. Defendant settled by payment of $20 actual damages, $25 punitive damages, and $31.15 costs; total, $76.15.

United States *v.* L. L. Evans, grazing trespass upon Pocatello National Forest. Defendant settled by payment of $15 actual damages, $25 punitive damages, and $22.85 costs; total, $62.85.

United States *v.* W. C. Preston, grazing trespass upon the Wasatch National Forest. This case involved the right of permittees to graze under their permit a band of sheep belonging to the defandant, not a permittee. The defendant claimed to have made a bona fide sale of the sheep to the permittees, but suit was brought against the defendant on the theory that such sale was merely a subterfuge. The jury returned a verdict in favor of the Government in the sum of $234.15 actual damages, and $180.85 costs. The permit issued the other parties

for 1,563 head of sheep, such permit being valued by them at $1.50 per head, will be canceled.

United States *v.* Beaver River Power Co., occupancy trespass upon the Fillmore National Forest. A bill was filed in the United States District Court for Utah, praying an injunction to restrain the Beaver River Power Co. from further occupancy of a portion of the Fillmore Forest without permit.

Law Case in District 5—

Cazajous and Inda pleaded guilty to the old indictment for grazing trespass on the Sierra National Forest and were fined by the court. The case against Grimaud was continued, since he was in France and could not plead in person.

Law Cases in District 6—

In the case of F. Herkenrath et al., in which the defendants left unattended a fire on the Olympic National Forest on July 16, 1912, the trespassers plead guilty on August 29, 1912, in the United States District Court for the Western District of Washington and were fined $10 each and costs, which amounted to $30.65.

W. I. Downard and Roy Schaeffer, partners. paid $72.98 on November 19, 1912, in settlement of their grazing trespass on the Wallowa National Forest. Complaint had been filed by the United States district attorney for the district of Oregon for $21.78 compensatory and $50 punitive damages.

On December 30, 1912, payment was received from the Dixie Meadows Mining Co. for $799.08, balance in full on their account for timber trespass on the Whitman National Forest. This company had previously paid $440.65. This case was referred to the Department of Justice on July 2, 1912.

OPERATION.

Reimbursement for Expenses—Letter of Authorization Amended.

The Acting Secretary has amended the letter of authorization to the Forester and the district foresters so that when it seems advisable the Forester and the district foresters can authorize reimbursement for actual expenses for the time spent by traveling forest officers while on the Forest or in camp, or a separate per diem, lower than that established for the time which is spent in travel on trains and in towns and cities, can be fixed for the time spent on the Forest or in camp.

This amendment was made effective beginning October 15, 1912.

Forest Service Standard Chain Tape—

Additional standard chain tapes have been adopted for the use of the Forest Service as follows:

A 66-foot tape, ¼-inch wide; divided into 100 links; the end links divided into tenths; with an extra foot before the zero mark; furnished with a hardwood reel; with large metal folding handle; with two large detachable rings, similar to that made by the Lufkin Rule Co. and described in their Catalogue No. 8 as No. 5066.

A 132-foot tape, ¼-inch wide; divided into 200 links; the end links divided into tenths; with an extra foot before the zero mark; furnished with a hardwood reel; with large metal folding handle; with two large detachable rings; similar to that made by the Lufkin Rule Co. and described in their Catalogue No. 8 as No. 5132.

Restoration of Lost or Obliterated Land Office Corners—

There is still a belief that forest officers are not permitted to reset or restore land-office corners which for any reason have been lost or obliterated, and that this can be done only by a United States deputy surveyor. This is not correct. Although forest officers are not specifically authorized nor requested by the General Land Office to restore corners, yet they should not hesitate to do so.

A corner which is lost or obliterated *may be restored by any person*, providing he follows the instructions issued by the General Land Office for "The restoration of lost and obliterated corners." These instructions were furnished to all supervisors and district foresters, together with the Manual of Surveying Instructions, to which they refer. A United States deputy surveyor has no greater authority to restore a corner than any other person.

Lookout Station Telescopes—

Two high-grade telescopes, of 4-inch aperture, have been installed at lookout stations on the Cleveland National Forest in California and on the Coronado National Forest in Arizona. Tests are being made this winter to determine if the use of such telescopes will add to the efficiency of the Forest Service in discovering fires, and possibly in determining their origin. It is expected that the tests will be completed at such an early date that if the reports are favorable a number of similar instruments can be provided for use at important lookout stations during the fire season of 1913.

Transfer of Minnesota and Michigan Forests—

Effective February 1, the Minnesota, Superior, Michigan, and Marquette Forests will be transferred from District 1 to District 2.

SILVICULTURE.

Insect Infestations—

Forest Insect Field Stations of the Bureau of Entomology have been established in Districts 1, 5, and 6.

The second paragraph on page 30 of the Forest Plans Section of the Manual provides that "If there is a field agent of the Bureau of

Entomology in the district, the matter will be taken up with him through the proper channels." It has been agreed by the Forest Service and the Bureau of Entomology that this should be interpreted as follows:

Any matters relating to administration or policy or to new control projects will first be taken up by the district forester with the Bureau of Entomology through the Forester. After the general policy and plan of procedure for the project have been agreed upon, correspondence in conducting it will be directly between the district forester and the field agent of the Bureau of Entomology.

Requests from private owners for advice or assistance in the control of insect attacks will be referred to the Bureau of Entomology. If cooperation between the private owner and the Forest Service is desirable, the Bureau of Entomology, after its investigation of the matter, will advise the private owner to take it up direct with the district forester concerned, who will make the necessary arrangement for cooperation.

LANDS.

Settlement—Information in Listing Letters Concerning Power Possibilities, etc.

[Circular letters of Nov. 1, Nov. 26, and Dec. 11, 1912.]

At the request of the Interior Department, instructions were issued to District Foresters, by the letters above indicated, to state in listing letters that "no power possibilities exist" on the area in question where the facts justify such a statement. Where an unqualified statement can not be made a duplicate copy on report 107 should be transmitted with the listing letter to the Interior Department. Where the land proposed to be listed is unsurveyed and described by metes and bounds, it should be stated in the listing letter whether any other tracts in the vicinity of or adjoining the one described have been listed under the act of June 11, 1906, or whether applications therefor have been made and are pending; also whether there are any mining claims adjoining or in the neighborhood of the tract listed. These instructions were not intended to be retroactive so far as to require a reexamination in the field of lands which had already been reported upon and recommended for listing; but as to such lands, if the District Forester has at hand in the records and files of his office the information requested, it should be embodied in the listing letter.

Claims—Amount of Cultivation Required of Squatters.

In reply to an inquiry from the district forester at Portland, Oreg., regarding the procedure to be followed in squatter claims cases where entry has been made since June 6, 1912, and a sufficient area has not

been cultivated to comply with provisions of the three-year homestead law, the following letter was written by the Associate Forester, and all district foresters should be guided thereby:

> I am informally advised that the General Land Office has held in a number cases that the provisions of the act of June 6, 1912, with reference to cultivation, must be complied with where homestead *entry* is made subsequent to the date of the passage of the act. It has also been learned informally that all requests for reduction of area required to be under cultivation, in case of entries under the act of June 6, 1912, are, for the present, being transmitted to the Field Service of the General Land Office for investigation and report before action is taken thereon by the Secretary of the Interior. While the Forest Service does not desire to invite criticism unnecessarily, it is, nevertheless, its duty to report the facts in reference to such claims. In the letter of transmittal to the chief of Field Division, a statement should be included to the effect that the protest is made only because of the provisions of the act of June 6, 1912, with regard to cultivation, by all claimants who have made entry subsequent to that date, and that if later the proper authorities should decide that such compliance is not necessary in the case of squatters who were precluded from making entry prior to that date solely because of the unsurveyed status of the lands, no objection to the patenting of the claim would be offered by the Forest Service.

Settlement—Indians in National Forests Entitled to Allotments.

Pursuant to a letter dated December 4, 1912, from the First Assistant Secretary of the Interior (Land Allotments, 113664–12 W.A.M.), the following circular letter was addressed to District Foresters under date of December 7, 1912:

> I will be very glad if you will instruct the supervisors of the National Forests in your district, and they, in turn, their rangers and other field officers, that whenever they have knowledge of a tract of agricultural land within the Forest that is occupied by an Indian, or upon which an Indian has made improvements, they make report thereof to you. Such report should contain the name of the Indian, if it is known, the nature of the occupancy, and the character, extent, and value of the improvements, so far as the same can be given, in a general way witnout a detailed examination being made. Such report should then be transmitted by you to the Commissioner of Indian Affairs, reference being made in the letter of transmittal to the First Assistant Secretary's letter of December 4, 1912, and to these instructions. A copy of these instructions has been forwarded to the Secretary of the Interior for his information.

Settlement—Construction Act of August 10, 1912.

The Solicitor has agreed that the provision of the Agricultural appropriation act that no lands listed under the act of June 11, 1906, shall pass from the Forest until patent issues may be considered as retroactive. The suspension of Manual Amendment No. 136 is therefore withdrawn and that amendment is now in full force and effect.

An amendment to the Manual (No. 153) has been prepared and is now in the hands of the printer, which modifies amendment No. 140 by striking out the last sentence of the latter, which reads as follows:

> They shall not apply, however, to any lands listed prior to August 10, 1912.

Settlement—Form 110.

An error occurs in the last sentence of the last paragraph of Form 110, which has just been reprinted. The word "way" should be substituted for the word "any," so as to make it read "In the case of right of *way* reservations," etc. Forest officers are advised of the error in this manner, since it is impracticable to have the correction made on the form.

Land Classification Amendment to Agricultural Appropriation Bill.

The amendment to the Agricultural appropriation bill, act of August 10, 1912 (Public, 261), for classifying agricultural lands, is printed below in response to numerous requests made for copies of it:

> That the Secretary of Agriculture is hereby directed and required to select, classify, and segregate, as soon as practicable, all lands within the boundaries of National Forests that may be opened to settlement and entry under the homestead laws applicable to the National Forests, and the sum of twenty-five thousand dollars is hereby appropriated for the purposes aforesaid.

SERVICE PUBLICATIONS ISSUED.

Bulletin 104. Principles of Drying Lumber at Atmospheric Pressure and Humidity Diagram.

Bulletin 105. Wood Turpentines: Their Analysis, Refining, and Composition, Based Upon Experiments at the Forest Products Laboratory at Madison, Wis.

Bulletin 113. Methods and Apparatus for the Prevention and Control of Forest Fires: As Exemplified on the Arkansas National Forest.

Bulletin 114. Forest Conditions in Louisiana.

Bulletin 116. Possibilities of Western Pines as a Source of Naval Stores.

Bulletin 117. Forest Fires: Their Causes, Extent, and Effects, with a Summary of Recorded Destruction and Loss.

Bulletin 118. Prolonging the Life of Cross-Ties.

Bulletin 119. An Examination of the Oleoresins of some Western Pines.

Circular 193. Mechanical Properties of Redwood.

Circular 205 (First revision). Forest Fire Protection under the Weeks Law in Cooperation with States.

Circular 208. Extracting and Cleaning Forest Tree Seed.

Circular 209. Service Tests of Ties—Progress Report.

Circular 210. Yield and Returns of Blue Gum (Eucalyptus) in California.

Report of the Forester, 1912.

CUMULATIVE INDEX TO SERVICE NOTES AND ORDERS.

(JULY, 1912–JANUARY, 1913.)

[Numbers in parentheses after the month indicate page.]

Amendment to agricultural appropriation bill, land classification; January (96).
Amendment to letter of authorization—reimbursement for expenses; January (92).
Amendments to Manual. (*See* Manual, amendments to.)
Attendance at meetings or conventions; July (24).
Authorization, amendment of letter of; January (92).
Claims; October (58–60); January (94).
Construction act of August 10, 1912; January (95).
Delayed publications; July (24).
Fire cooperation by postal employees; July (26).
trespass. (*See* Trespass, fire.)
Form 331 revised; July (28).
110, error in; January (96).
General order 155; July (24).
Grazing trespass. (*See* Trespass, grazing.)
Indian allotments; January (95).
Insect infestations; January (93).
Land classification, amendment to agricultural appropriation bill; January (96).
Land Office corners, restoration of lost or obliterated; January (93).
Lands, claims; October (58–60); January (94).
settlement; October (58–60); January (94–96).
Law cases in district 1: July (25); October (56).
2: July (25); January (90).
3: July (25); October (56–57); January (91).
4: July (26); October (57); January (91).
5: July (26); October (57); January (92).
6: July (26); October (57); January (92).
Manual, amendments to; July (28); October (59–60).
National Forests, transfer of Minnesota and Michigan; January (93).
Photo-prints album; October (57).
Power possibilities, information in listing letters concerning; January (94).
Protractor, lookout station; July (28).
Reimbursement for expenses—letter of authorization amended; January (92).
Settlement; October (58–60); January (94–96).
Signs, symbols, and colors; July (27).

Squatters' claims, amount of cultivation required; January (94).
Standard chain tapes; January (92).
Subsistence for one day after arrival; July (26).
Telescope, lookout station; January (93).
Timber trespass. (*See* Trespass, timber.)
Transfer of Minnesota and Michigan Forests; January (93).
Trespass cases, fire, district 2; July (25); January (90).
district 3; January (91).
district 6; July (26); January (92).
grazing, district 2; July (25); January (90).
district 3; July (25); October (56–57); January (91).
district 4; July (26); October (57); January (91).
district 5; October (57); January (92).
district 6; July (26); October (57); January (92).
timber, district 1; July (25).
district 2; July (25); January (90).
district 3; July (25); October (56); January (91).
district 4; July (26).
district 5; October (57).
district 6; January (92).

O

Mulford

Issued April 15, 1913.

UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.

HENRY S. GRAVES, Forester.

April Field Program, 1913.

This program of field work and assignments in the Forest Service is issued quarterly on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

OFFICE OF THE FORESTER.

HENRY S. GRAVES, Forester.

ALBERT F. POTTER, Associate Forester.

HERBERT A. SMITH, editor; BRISTOW ADAMS, forest assistant.
FINDLEY BURNS, in charge of technical review.
Educational cooperation, DON CARLOS ELLIS.
Proofs and forms, CLAUDE M. BALLARD.
GEORGE B. SUDWORTH, dendrologist.
EUGENE S. BRUCE, expert lumberman.
D. D. BRONSON, general inspector.

ACCOUNTS.

Division of Accounts and Disbursements (Forest Service branch).
M. E. FAGAN, chief office of accounts; E. A. MELZAR, assistant chief.

OPERATION.

JAMES B. ADAMS, assistant forester, in charge; FRANKLIN W. REED, forest inspector; GEORGE G. ANDERSON, administrative assistant.

GEOGRAPHY.—FRED G. PLUMMER, chief.

ATLAS.—G. B. BRUCE.

DRAFTING.—C. A. KOLB.

PHOTOGRAPHY.—E. S. SHIPP.

MAINTENANCE.—GEORGE A. BENTLEY, chief.

SILVICULTURE.

W. B. GREELEY, assistant forester, in charge; EARLE H. CLAPP, forest inspector; R. Y. STUART, forest inspector; AUSTIN CARY, forest examiner; FRANKLIN H. SMITH, statistician in forest products, special detail; BARRINGTON MOORE, forest plans; HARRY IRION, office assistant.

STATE COOPERATION.—J. G. PETERS, chief.

Collaborators, State cooperative fire protection under the Weeks law.—B. S. Viles, land agent and forest commissioner, Augusta, Me.; E. C. Hirst, State forester, Concord, N. H.; F. H. Billard, forester, New Hampshire Timberland Owners' Association, Berlin, N. H.; A. F. Hawes, State forester, Burlington, Vt.; F. W. Rane, State forester, Boston, Mass.; W. O. Filley, State forester, New Haven, Conn.; W. G. Howard, assistant superintendent of forests, Albany, N. Y.; C. P. Wilber, State fire warden, Trenton, N. J.; F. W. Besley, State forester, Baltimore, Md.; J. E. Barton, State forester, Frankfort, Ky.; E. M. Griffith, State forester, Madison, Wis.; Wm. T. Cox, State forester, St. Paul, Minn.; G. A. Day, State land commissioner, Boise, Idaho; F. A. Elliott, State forester, Salem, Oreg.; J. R. Welty, State forester and fire warden, Olympia, Wash.

State reports.—L. S. Murphy, J. H. Foster, and J. S. Holmes.

SILVICS.—RAPHAEL ZON, chief; S. T. DANA, assistant chief.

Studies.—E. H. Frothingham, W. D. Sterrett, C. R. Tillotson, G. N. Lamb, W. R. Mattoon, G. E. Clement.

WOOD STRUCTURE STUDIES.—C. D. MELL, in charge; W. D. Brush, Arthur Koehler, R. G. Light.

FOREST DISTRIBUTION.—W. H. LAMB, in charge; G. E. Wharton.

COMPUTING.—W. B. BARROWS.

LIBRARY.—MISS H. E. STOCKBRIDGE.

COMPILATION.—GEO. DE S. CANAVARRO; Miss E. B. Leech.

FOREST MANAGEMENT IN THE EAST.—A. W. WILLIAMSON, acting in charge.

GRAZING.

A. F. POTTER, associate orester, in charge; L. F. KNEIPP, assistant forester; WILL C. BARNES, inspector of grazing.

GRAZING STUDIES (in cooperation with F. V. Coville, botanist, Bureau of Plant Industry).—James T. Jardine, inspector of grazing, in charge, Washington, D. C.

Forage investigations.—William A. Dayton, plant ecologist, Washington, D. C.

LANDS.

JAMES B. ADAMS, assistant forester, in charge; O. C. MERRILL, chief engineer.
OCCUPANCY.—CHARLES H. SQUIRE, in charge; W. J. MANGAN, examiner.
CLAIMS.—JAMES I. PARKER in charge; F. L. HARVEY, examiner.

PRODUCTS.

W. B. GREELEY, assistant forester, in charge.

FOREST PRODUCTS LABORATORY (in cooperation with the University of Wisconsin, Madison, Wis.).—HOWARD F. WEISS, director.

H. S. BETTS and CARLILE P. WINSLOW, engineers in forest products.

Design of laboratory equipment.—ROLF THELEN.

Review of results.—WM. H. KEMPFER.

CHEMISTRY AND DISTILLATION.—ERNEST BATEMAN, acting in charge; A. W. Schorger, F. W. Kressman, R. C. Palmer, Jacob M. Johlin, jr., Joseph P. Mehlig, Homer Cloukey.

ENGINEERING.—A. L. HEIM, in charge; Frank J. Hallauer, James O. Bixby, O. M. Sutherland.

MAINTENANCE.—CHAS. P. JUCKEM, in charge.

PULP AND PAPER.—H. E. SURFACE, in charge; Sidney D. Wells, Charles S. Gwinn, Alexander W. Beemer.

TIMBER PHYSICS.—H. D. TIEMANN, in charge; Frederick Dunlap, Eloise Gerry, N. de W. Betts, C. T. Barnum, M. E. Diemer, Estelle Louise Jensen.

TIMBER TESTS.—JOHN A. NEWLIN, in charge; A. K. Armstrong, Thomas R. C. Wilson, Lorraine J. Markwardt.

WOOD PRESERVATION.—CLYDE H. TEESDALE, acting in charge; E. W. Peters, H. M. Mason, jr., James D. MacLean.

GROUND-WOOD-PULP LABORATORY, Wausau, Wis.—JOHN H. THICKENS, in charge; Sidney E. Lunak, G. C. McNaughton.

PATHOLOGY (in cooperation with the Bureau of Plant Industry).—C. J. HUMPHREY, in charge; Ruth E. Bates.

WOOD UTILIZATION.—O. T. SWAN, in charge, Washington, D. C. Wood Consumption Studies, R. E. Simmons, John T. Harris, Clark W. Gould, H. L. Davis, S. L. Wolfe, Washington, D. C.; E. F. Horne, New Haven, Conn.; Hu Maxwell, Chicago, Ill. Production of Lumber and Forest Products, A. H. Pierson, Washington, D. C.; A. L. Strough, Albany, N. Y. Chestnut Blight Utilization Studies, Jesse C. Nellis, H. M. Sears, C. B. Baker, Washington, D. C.

ACQUISITION OF LAND UNDER THE WEEKS LAW.

WM. L. HALL, assistant forester, in charge, Washington, D. C.

LUMBERMEN'S EXAMINATIONS.—W. W. Ashe, C. D. Cushing, E. D. Fletcher, and Geo. E. Marshall, Washington, D. C.

EXAMINATIONS OF LANDS.—W. W. ASHE, in charge, Washington, D. C., White Mountain area, J. S. Benedict, in charge, Gorham, N. H., D. W. Martin and S. H.

Thompson, forest assistants; Massanutten, Potomac, and Youghiogheny areas, E. D. Clark, forest assistant, in charge, Woodstock, Va.; Shenandoah area, L. H. Marsh, forest assistant, in charge, Washington, D. C.; Natural Bridge area, J. H. Fahrenbach, forest assistant, in charge, Natural Bridge, Va.; Monongahela area, W. A. Hopson, forest assistant, in charge, Washington, D. C.; White Top area, C. Macfarlane, forest assistant, in charge, Abingdon, Va.; Mount Mitchell area, L. L. Bishop, forest assistant, in charge, Marion, N. C., and R. J. Noyes, forest assistant; Nantahala area, R. F. Hemingway, forest assistant, in charge, Andrews, N. C., and H. L. Russell, E. M. Brunner, W. E. Barbour, K. Schmitt, J. S. Kaplan, forest assistants; Smoky Mountain area, V. Rhoades, forest examiner, in charge, Townsend, Tenn.; Pisgah area, J. J. Fritz, forest assistant, in charge, Highlands, N. C.; Savannah area, R. W. Shields, forest assistant, in charge, Clayton, Ga., and C. E. Beaumont, H. G. Spahr, E. Lindsey, and L. H. Steffens, forest assistants; Georgia area, E. V. Clark, forest examiner, in charge, Blueridge, Ga., and H. L. Johnson and J. H. Keyes, forest assistants. R. C. Hall, E. P. Bushnell, and R. P. Holdsworth, forest assistants, Washington, D. C.

SURVEY OF LANDS.—R. DIEFFENBACH, forest examiner, in charge; R. G. Merritt, forest assistant, Washington, D. C.; Potomac area, A. P. Hamilton and E. P. Whitten; Mount Mitchell area, D. M. Gibson; Nantahala area, J. Denman; Smoky Mountain area, R. E. Witt and T. A. Cox, jr.; White Mountain area, A. E. Hoxie and H. L. Tucker; Savannah area, F. A. Gardner, Leon C. Marshall, Samuel L. Chiles, Harold G. Wood; Georgia area, Wm. N. Sloan.

ADMINISTRATION OF ACQUIRED LANDS.—K. W. WOODWARD, in charge, Washington, D. C.

LAW.—Office of the Solicitor (Forest Service branch). Record examiners, M. B. Stickley, Franklin, N. C.; George E. Taylor, Bristol, Tenn.; Cameron F. MacRae, Franklin, N. C.; Alfred S. Grigg, Maryville, Tenn.; A. S. Lanier, Richmond, Va.; Clarence E. Miles, Lancaster, N. H.; Chas. E. Jones, Asheville, N. C.

DISTRICT 1.

Montana, northeastern Washington, northern Idaho, northwestern South Dakota, and southwestern North Dakota. Office, Federal Building, Missoula, Mont.

F. A. SILCOX, district forester; E. W. CRAMER, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). W. C. HENDERSON, assistant to the solicitor, in charge; HAROLD H. CLARKE, assistant to the solicitor.

ACCOUNTS.—JOHN A. URBANOWICZ, district fiscal agent.

OPERATION.—J. F. PRESTON, assistant district forester; R. B. ADAMS, superintendent of telephone construction.

MAINTENANCE.—GARDNER I. PORTER.

SILVICULTURE.—D. T. MASON, assistant district forester.

TIMBER SALES.—DONALD BRUCE.

PLANTING AND SILVICS.—H. H. FARQUHAR.

S. S. J. MALVEN, insect control.

JAMES R. WEIR, consulting pathologist, Missoula, Mont.

GRAZING.—C. H. ADAMS, assistant district forester; CHARLES E. FLEMING, grazing examiner.

LANDS.—R. H. RUTLEDGE, assistant district forester, JOHN D. JONES, assistant.

EXPERIMENT STATION.

Priest River, Kaniksu National Forest.—DONALD R. BREWSTER, in charge, Priest River, Idaho.

FOREST INSECT FIELD STATION.

(Bureau of Entomology, Branch of Forest Insect Investigations.)

Station 1, Missoula, Mont.—JOSEF BRUNNER, agent and expert in charge.

NATIONAL FORESTS.

IDAHO.

Clearwater.—CHARLES A. FISHER, forest supervisor, Orofino (WU-Am).

Coeur d'Alene.—ROSCOE HAINES, acting forest supervisor, Coeur d'Alene (WU-Am); Joseph B. Halm, deputy forest supervisor; W. W. Morris, forest assistant.

Kaniksu.—See Washington.

Nezperce.—GEORGE V. RING, forest supervisor, Grangeville (WU-Am); J. Arthur Brown, deputy forest supervisor.

Pend Oreille.—J. A. FITZWATER, forest supervisor, Sandpoint (WU-Am, N, W).

Selway.—FRANK A. FENN, forest supervisor, Kooskia (WU-N); Charles F. Howell, deputy forest supervisor.

St. Joe.—EDWARD A. HOLCOMB, acting forest supervisor, St. Maries (Continental—WF); Wilford B. Willey and John E. Keach, forest assistants; C. H. Gregory, lumberman.

MONTANA.

Absaroka.—JOSEPH D. WARNER, forest supervisor, Livingston (WU-Am, N); D. L. Beatty, deputy forest supervisor.

Beartooth.—GLEN A. SMITH, forest supervisor, Billings (WU-Am, N); Arthur H. Abbott, deputy forest supervisor.

Beaverhead.—C. K. WYMAN, forest supervisor, Dillon (WU-Am).

Bitterroot.—W. W. WHITE, forest supervisor, Missoula (WU-Am, N); Abbott B. Silva and Herbert F. Lindsay, forest assistants.

Blackfeet.—R. P. MCLAUGHLIN, forest supervisor, Kalispell (WU-Am, GN); David D. Johnson, deputy forest supervisor.

Cabinet.—CLAUDE W. GRIFFIN, forest supervisor, Thompson Falls (WU-Am, N); Justin K. Dwinelle, forest assistant.

Custer.—GEORGE E. MARTIN, acting forest supervisor, Miles City (WU-Am, N).

Deerlodge.—LEWIS C. STOCKDALE, acting forest supervisor, Anaconda (P-Am, N); R. Trevor Ferguson, deputy forest supervisor; C. N. Whitney, forest assistant.

Flathead.—PAGE S. BUNKER, forest supervisor, Kalispell (WU-Am, GN); John H. Clack, deputy forest supervisor.

Gallatin.—D. T. CONKLING, forest supervisor, Bozeman (WU-Am, N); Samuel R. Hays, deputy forest supervisor.

Helena.—J. B. SEELY, forest supervisor, Helena (WU-Am, N).

Jefferson.—WALLACE S. PERRINE, forest supervisor, Great Falls (WU-Am, N); Wellman Holbrook, deputy forest supervisor.

Kootenai.—WILLIAM A. RAYMOND, acting forest supervisor, Libby (WU-Am, GN); Webster H. Ransom and William C. Latane, forest assistants.

Lewis and Clark.—SCOTT LEAVITT, forest supervisor, Chouteau (WU via Collins-Am, GN via Collins).

Lolo.—ELERS KOCH, forest supervisor, Missoula (WU, P-Am, N); William W. Bennett, forest assistant.

Madison.—CLIFTON W. HUDSON, forest supervisor, Sheridan (WU-Am, N); Ernest F. Jones, forest assistant.

Missoula.—RUTLEDGE PARKER, forest supervisor, Missoula (WU, P-Am, N); Fay G. Clark, forest assistant.

Sioux.—See South Dakota.

NORTH DAKOTA.

Dakota.—C. A. BALLINGER, forest supervisor, Camp Crook, S. Dak. (WU via Bellefourche-Am via Bellefourche).

SOUTH DAKOTA.

Sioux.—C. A. BALLINGER, forest supervisor, Camp Crook (WU via Bellefourche-Am via Bellefourche).

WASHINGTON.

Kaniksu.—M. N. STICKNEY, forest supervisor, Newport (WU-Am, GN); Meyer H. Wolff, deputy forest supervisor.

DISTRICT 2.

Colorado, Wyoming, South Dakota, Nebraska, western Kansas, northern Michigan, and northern Minnesota. Office, Majestic Building, Denver, Colo.

SMITH RILEY, district forester; T. W. NORCROSS, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). GEORGE E. TROWBRIDGE, assistant to the solicitor, in charge; J. F. LAWSON, assistant to the solicitor.

ACCOUNTS.—H. I. LOVING, district fiscal agent.

OPERATION.—FRED W. MORRELL, assistant district forester.

MAINTENANCE.—F. H. CARROLL.

SILVICULTURE.—C. M. GRANGER, assistant district forester.

PLANTING.—SEWARD D. SMITH.

SILVICS.—C. G. BATES.

CARL HARTLEY, consulting pathologist, Washington, D. C.

GRAZING.—J. W. NELSON, assistant district forester; LYNN H. DOUGLAS, grazing examiner.

LANDS.—C. J. STAHL, assistant district forester; THOS. M. MOORMAN, assistant; THEODORE SHOEMAKER, Jr., land classification.

EXPERIMENT STATIONS.

Fremont, Pike National Forest.—F. B. NOTESTEIN, Manitou, Colo.; W. D. Hays, assistant.

Wagon Wheel Gap, Rio Grande National Forest.—PETER KEPLINGER, Wagon Wheel Gap, Colo., and H. C. Jones, of the Weather Bureau.

NATIONAL FORESTS.

COLORADO.

Arapaho.—ARTHUR M. COOK, forest supervisor, Fraser (WU-Ad); Alva A. Simpson, deputy forest supervisor; Arthur T. Upson, forest assistant.

Battlement.—JOHN W. LOWELL, Jr., forest supervisor, Collbran (WU-WF, G); George Z. Mason, forest assistant.

Cochetopa.—EUGENE WILLIAMS, forest supervisor, Saguache (WU-G); Charles P. Bliss, forest assistant.

Colorado.—H. N. WHEELER, forest supervisor, Fort Collins (WU-WF); HUBER C. HILTON, forest assistant.

Durango.—ERNEST W. SHAW, forest supervisor, Durango (WU-G).

Gunnison.—WILLIAM R. KREUTZER, forest supervisor, Gunnison (WU-WF, G); W. H. Mast, forest assistant.

Hayden.—See Wyoming.

Holy Cross.—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU-WF, G); George R. Morrison, forest assistant.

La Sal.—See Utah, District 4.

Leadville.—THEODORE SHOEMAKER, forest supervisor, Leadville (WU, P-WF, G); R. E. Clark, deputy forest supervisor; J. E. Martin, forest assistant.

Montezuma.—RESS PHILLIPS, forest supervisor, Mancos (WU-G); Gordon Parker, forest assistant.

Pike.—C. W. FITZGERALD, forest supervisor, Denver (WU, P-Ad, Am, G, US, WF); W. I. Hutchinson and E. S. Keithley, forest assistants, Monument Nursery; W. Schrader, forest planting assistant, Monument.

Rio Grande.—A. L. SWEITZER, forest supervisor, Monte Vista (WU-G); Walter F. Bowers, deputy forest supervisor; Jay Higgins, forest assistant.

Routt.—J. H. RATLIFF, forest supervisor, Steamboat Springs (WU-Ad); Ray Peck, deputy forest supervisor; P. J. Paxton, forest assistant.

San Isabel.—J. N. LANGWORTHY, forest supervisor, Westcliffe (WU-G); Albin G. Hamel, forest assistant.

San Juan.—G. P. BARD, forest supervisor, Pagosa Springs (WU-G); A. F. C. Hoffman, forest assistant.

Sopris.—JOHN MCLAREN, forest supervisor, Aspen (WU-WF, G); W. G. Baxter, forest assistant.

Uncompahgre.—HOWARD S. BUSHNELL, forest supervisor, Delta (WU-G); J. H. Ramskill, forest assistant.

White River.—JAMES A. BLAIR, forest supervisor, Meeker (WU-WF, G); Crosby A. Hoar, forest assistant.

KANSAS.

Kansas.—B. R. H. D'ALLEMAND, forest supervisor, Garden City (WU, P-WF); Garden City Nursery.

MICHIGAN.

Marquette. Michigan.—W. B. PIPER, forest supervisor, East Tawas (WU-Am).

MINNESOTA.

Minnesota.—G. E. MARSHALL, forest supervisor, Cass Lake (WU-Am, GN).
Superior.—LESLIE BROWNELL, acting forest supervisor, Ely (WU-GN).

NEBRASKA.

Nebraska.—H. EARL FRENCH, forest supervisor, Halsey (WU-Ad); Fred R. Johnson, forest assistant; Halsey Nursery.

SOUTH DAKOTA.

Black Hills.—PAUL D. KELLETER, forest supervisor, Deadwood (WU-Ad, Am); William Wiehe, deputy forest supervisor.
Harney.—R. P. IMES, forest supervisor, Custer (WU-Ad); Richard A. Phillips and Percy T. Smith, forest assistants.

WYOMING.

Bighorn.—E. N. KAVANAGH, forest supervisor, Sheridan (WU-Ad); Andrew G. Stockwell, deputy forest supervisor; Earl S. Peirce, forest assistant.
Bonneville.—L. E. COOPER, acting forest supervisor, Dubois (WU-Am).
Bridger.—H. C. HALL, forest supervisor, Pinedale (WU-Am).
Hayden.—JAMES BLACKHALL, forest supervisor, Encampment (WU, P-Am); Roy S. Wheeler, forest assistant.
Medicine Bow.—GEO. A. DUTHIE, forest supervisor, Laramie (WU, P-Am); D. S. Jeffers, forest assistant.
Shoshone.—R. W. ALLEN, forest supervisor, Cody (WU-Ad); Fred B. Agee, deputy forest supervisor; Myron W. Thompson, forest assistant.
Sundance.—LOUIS KNOWLES, forest supervisor, Sundance (WU-Ad, Am).
Washakie.—C. G. POOLE, forest supervisor, Lander (WU-Am).

DISTRICT 3.

Arizona, Arkansas, Florida, New Mexico, and Oklahoma. Office, Luna-Otero Building, Albuquerque, N. Mex.

A. C. RINGLAND, district forester; T. W. NORCROSS, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). D. F. MCGOWAN, assistant to the solicitor, in charge; J. O. SETH, assistant to the solicitor.

ACCOUNTS.—J. J. DUFFY, district fiscal agent.

OPERATION.—A. O. WAHA, assistant district forester; A. S. PECK, assistant district forester; J. F. MULLEN, forest examiner, in charge improvement and protection.

MAINTENANCE.—H. B. HAMMOND.

SILVICULTURE.—JOSEPH C. KIRCHER, forest examiner; ATHOL A. WYNNE, lumberman, in charge timber sale inspection and check-scaling, Arizona and New Mexico; QUINCY RANDLES, forest assistant, in charge timber sale inspection and check-scaling, Arkansas; P. P. PITCHLYNN, in charge reconnaissance.

GRAZING.—JOHN KERR, assistant district forester; R. R. HILL, grazing examiner.

LANDS.—FRANK C. W. POOLER, assistant district forester; M. M. CHENEY, assistant; FREDERIC WINN, in charge of land classification; RALPH C. HUEY, deputy forest supervisor in charge La Fourche land classification project on Arkansas Forest.

EXPERIMENT STATION.

Fort Valley, Coconino National Forest.—G. A. PEARSON, Flagstaff, Ariz.; Alexander J. Jaenicke, forest assistant.

NATIONAL FORESTS.

ARIZONA.

Apache.—JOHN D. GUTHRIE, forest supervisor, Springerville (WU, P-WF); Clifford W. McKibbin, forest assistant.

Chiricahua.—A. H. ZACHAU, forest supervisor, Portal, via Rodeo, N. Mex. (WU-WF).

Coconino.—WILLARD M. DRAKE, forest supervisor, Flagstaff (WU, P-WF); Thomas E. McCullough and Clarence F. Korstian, forest assistants.

Coronado.—ROBERT J. SELKIRK, forest supervisor, Tucson (WU-WF).

Crook.—T. T. SWIFT, forest supervisor, Safford (WU-WF).

Prescott.—C. H. HINDERER, forest supervisor, Prescott (WU-WF); J. C. McNelty, deputy forest supervisor.

Sitgreaves.—CHAS. H. JENNINGS, acting forest supervisor, Snowflake (WU, P-WF).

Tonto.—C. C. HALL, forest supervisor, Roosevelt (WU-WF).

Tusayan.—HAROLD GREENE, forest supervisor, Williams (WU, P-WF); Gordon T. Backus, forest assistant.

Zuni.—See New Mexico.

ARKANSAS.

Arkansas.—S. A. CHAPPELL, forest supervisor, Hot Springs (WU, P-WF, P); C. J. Heller, and Raymond E. Hopson, forest assistants.

Ozark.—FRANCIS KIEFER, forest supervisor, Harrison (WU-WF); W. F. Hill, deputy forest supervisor; L. L. Janes and Robt. S. Wallace, forest assistants.

FLORIDA.

Florida.—I. F. ELDREDGE, forest supervisor, Pensacola (WU, P); John W. Spencer, forest assistant.

NEW MEXICO.

Alamo.—R. F. BALTHIS, forest supervisor, Cloudcroft (WU-WF).

Carson.—ALDO LEOPOLD, forest supervisor, Tres Piedras (WU-G); Raymond E. Marsh, deputy forest supervisor.

Chiricahua.—See Arizona.

Datil.—W. H. GODDARD, forest supervisor, Magdalena (WU, P-WF); Robert L. Deering, deputy forest supervisor; H. Basil Wales, forest assistant.

Gila.—Don P. Johnston, forest supervisor, Silver City (WU, P-WF); Ausburn H. Douglas, deputy forest supervisor; Herman Krauch and N. Curtis Case, forest assistants; Fort Bayard Nursery, H. C. Turner, forest planting assistant.

Jemez.—Frank E. Andrews, forest supervisor, Coyote (WU-G).

Lincoln.—J. A. Kinney, forest supervisor, Capitan (WU-WF).

Manzano.—Hugh G. Calkins, forest supervisor, Albuquerque (WU, P-WF); J. Wilbur O'Byrne, forest assistant.

Pecos.—Thos. R. Stewart, forest supervisor, Cowles (WU-WF via Glorieta); Ira T. Yarnall, forest assistant; Las Gallinas Nursery, H. D. Burrall, forest examiner.

Zuni.—Hugh G. Calkins, forest supervisor, Albuquerque (WU, P-WF); J. Wilbur O'Byrne, forest assistant.

OKLAHOMA.

Wichita.—Frank Rush, game warden, in charge, Cache (WU-WF).

DISTRICT 4.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Forest Service Building, Ogden, Utah.

E. A. SHERMAN, district forester; J. P. Martin, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). R. F. Feagans, assistant to the solicitor, in charge.

ACCOUNTS.—Q. R. Craft, district fiscal agent.

OPERATION.—A. C. McCain, assistant district forester.

Maintenance.—Felix T. Moore.

Boundaries.—R. V. R. Reynolds.

SILVICULTURE.—O. M. Butler, assistant district forester; D. F. Seery, lumberman; D. M. Lang, scaler.

Planting.—J. M. Fetherolf.

Silvics.—E. R. Hodson.

GRAZING.—Homer E. Fenn, assistant district forester; Alfred E. Aldous, grazing examiner.

LANDS.—T. C. Hoyt, assistant district forester; R. E. Gery, assistant.

SUPPLY DEPOT.—A. M. Smith, property clerk.

PROPERTY AUDIT.—J. G. Falck, property auditor.

EXPERIMENT STATION.

Utah, Manti National Forest.—Arthur W. Sampson, in charge; Forman T. McLean, Ephraim, Utah.

NATIONAL FORESTS.

ARIZONA.

Dixie.—See Utah.

Kaibab.—James L. Pelton, forest supervisor, Kanab, Utah (WU-WF).

IDAHO.

Boise.—E. GRANDJEAN, forest supervisor, Boise (WU-Am); M. S. Benedict deputy forest supervisor; Dana Parkinson, forest assistant.

Cache.—See Utah.

Caribou.—G. G. BENTZ, forest supervisor, Montpelier (WU-Am); L. W. Hastings, deputy forest supervisor; J. H. Hull, forest assistant.

Challis.—DAVID LAING, forest supervisor, Challis (WU-Am).

Idaho.—HERBERT GRAFF, forest supervisor, McCall (WU-P); Hubert C. Williams, deputy forest supervisor.

Lemhi.—C. I. HUDDLE, forest supervisor, Mackay (WU-Am); E. C. Sanford, forest assistant.

Minidoka.—WILLIAM MCCOY, forest supervisor, Oakley (WU-Am).

Palisade.—FRANK J. RYDER, forest supervisor, St. Anthony (WU-Am); C. F. Evans, forest assistant.

Payette.—GUY B. MAINS, forest supervisor, Emmett (WU-Am); Lawrence J. Phelan, deputy forest supervisor; Lee O. Miles and W. N. Sparhawk, forest assistants.

Pocatello.—J. F. BRUINS, forest supervisor, Pocatello (WU-Am); Pocatello Nursery, Arthur P. Say, forest ranger.

Salmon.—JOHN A. PEARSON, forest supervisor, Salmon (WU-Am); Herman Work, forest assistant.

Sawtooth.—C. N. WOODS, forest supervisor, Hailey (WU-Am); Herbert G. McPheters, deputy forest supervisor; Samuel B. Locke, deputy forest supervisor.

Targhee.—CHESTER B. MORSE, forest supervisor, St. Anthony (WU-Am); Charles A. Beam, deputy forest supervisor; S. S. Stewart and J. W. Stokes, forest assistants.

Weiser.—J. B. LAFFERTY, forest supervisor, Weiser (WU-Am); W. M. Campbell, deputy forest supervisor; A. E. Oman, forest assistant.

NEVADA.

Humboldt.—S. B. ARTHUR, forest supervisor, Gold Creek (WU-WF).

Moapa.—THOMAS J. COLLINS, forest supervisor, Austin (WU-Am).

Nevada.—GEO. C. THOMPSON, forest supervisor, Ely (WU-WF); W. B. Rice, forest assistant.

Ruby.—JAMES M. RYAN, forest supervisor, Lamoille (WU-WF).

Santa Rosa.—W. W. BLAKESLEE, forest supervisor, Paradise.

Toiyabe.—THOMAS J. COLLINS, forest supervisor, Austin (WU, P-WF); R. D. Garver, forest assistant.

UTAH.

Ashley.—W. M. ANDERSON, forest supervisor, Vernal (WU-WF); Lester E. Hitchcock, forest assistant.

Cache.—CLINTON G. SMITH, forest supervisor, Logan (WU-Am); J. W. Humphrey, deputy forest supervisor; E. C. Shepard, forest assistant.

Dixie.—JOHN RAPHAEL, forest supervisor, St. George (WU-WF).

Fillmore.—ERNEST WINKLER, forest supervisor, Beaver (WU-WF).

Fishlake.—CARL B. ARENTSON, forest supervisor, Salina (WU-WF); D. A. Arrivee, forest assistant.

La Sal.—HENRY A. BERGH, forest supervisor, Moab (WU-WF).

Manti.—A. W. JENSEN, forest supervisor, Ephraim (WU-WF); B. E. Mattsson, deputy forest supervisor; J. C. Roak, forest assistant.

Minidoka.—See Idaho.

Nebo.—DAN S. PACK, forest supervisor, Nephi (WU-WF).

Pocatello.—See Idaho.

Powell.—GEO. H. BARNEY, forest supervisor, Escalante (WU-WF).

Sevier.—O. C. SNOW, forest supervisor, Panguitch (WU-WF).

Uinta.—W. I. PACK, forest supervisor, Provo (WU-WF); J. Carl Allred, deputy forest supervisor; Nils B. Eckbo, forest examiner; Uinta Nursery, Asa L. Brower, and F. S. Baker, forest assistants.

Wasatch.—E. H. CLARKE, forest supervisor, Salt Lake City (WU, P-Am, WF); S. E. Bower, forest assistant; Wasatch Nursery, N. J. Fetherolf, forest planting assistant.

WYOMING.

Ashley.—See Utah.

Caribou.—See Idaho.

Palisade.—See Idaho.

Targhee.—See Idaho.

Teton.—R. E. MILLER, forest supervisor, Jackson (WU-Am); H. B. Maris, forest assistant.

Wyoming.—JAMES E. JEWELL, forest supervisor, Afton (WU-Am); John E. Ingram and R. A. Stretch, forest assistants.

DISTRICT 5.

California and southwestern Nevada. Office, First National Bank Building, San Francisco, Cal.

COERT DUBOIS, district forester; F. H. FOWLER, district engineer; J. LEROY MATHIAS, assistant to district engineer; CLARENCE WILEY, inspector of records.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge; MAURY CURTIS, assistant to the solicitor.

ACCOUNTS.—A. W. SMITH, district fiscal agent.

OPERATION.—ROY HEADLEY, assistant district forester; WM. C. HODGE, Jr., inspector of fire-protection plans.

MAINTENANCE.—T. M. KENNEDY.

SILVICULTURE.—T. D. WOODBURY, assistant district forester; SWIFT BERRY, forest examiner; J. C. ELLIOTT, lumberman.

LOUIS MARGOLIN, forest examiner, reconnaissance.

SILVICS.—J. A. MITCHELL and L. T. LARSEN, forest assistants.

RALPH HOPPING, forest examiner, insect control.

E. P. MEINECKE, consulting pathologist; J. S. BOYCE, scientific assistant, San Francisco, Cal.

GRAZING.—JOHN H. HATTON, assistant district forester.

LANDS.—L. A. BARRETT, assistant district forester; CHAS. S. BROTHERS, assistant; land classification—S. N. STONER, forest examiner, in charge of district; J. O. MORROW and P. L. DAY, forest examiners in charge of field parties.

PRODUCTS.—C. STOWELL SMITH, assistant district forester, in charge; C. A. KUPFER, forest assistant; PERCY R. HICKS, engineer in forest products.

EXPERIMENT STATION.

Feather River, Plumas National Forest.—HAROLD H. GREENAMYRE, forest assistant, in charge, Quincy, Cal.

FOREST INSECT FIELD STATION.

(Bureau of Entomology, Branch of Forest Insect Investigations.)

Station 5, Placerville, Cal.—H. E. BURKE, entomological assistant, in charge.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P-WF); Edward N. Munns, forest assistant, San Bernardino.

California.—D. P. GODWIN, forest supervisor, Willows (P-WF); B. H. Mace, deputy forest supervisor; S. W. Strothman, forest assistant.

Cleveland.—DAVID G. KINNEY, forest supervisor, San Diego (WU, P-WF).

Eldorado.—EVAN W. KELLEY, forest supervisor, Placerville (WU-WF); George W. Lyons, forest assistant.

Inyo.—A. H. HOGUE, forest supervisor, Bishop (WU-WF); Chas. H. Edwards, forest assistant.

Kern.—W. J. RUSHING, forest supervisor, Bakersfield (WU-WF); Neal T. Childs, forest assistant.

Klamath.—W. B. RIDER, forest supervisor, Yreka (WU-WF); J. R. Hall, deputy forest supervisor; Douglas K. Noyes, forest assistant.

Lassen.—L. A. H. KLING, forest supervisor, Red Bluff (P-WF); Shirley W. Allen, forest examiner; R. H. Boerker, forest assistant.

Modoc.—C. E. RACHFORD, forest supervisor, Alturas (P-WF); Vernon L. Bonner, deputy forest supervisor; Belknap C. Goldsmith, forest assistant.

Mono.—See Nevada.

Monterey.—N. H. SLOANE, acting forest supervisor, Arbolado (WU, Monterey-WF, Monterey).

Plumas.—D. N. ROGERS, forest supervisor, Quincy (WU, Keddie, Cal.-G); W. G. Durbin, deputy forest supervisor; R. S. Maddox and George R. Orr, forest assistants; Patrick Kennedy, lumberman, reconnaissance.

Santa Barbara.—W. M. SLOSSON, forest supervisor, Santa Barbara (P-WF); H. G. Merrill, deputy forest supervisor; W. M. Moore, forest assistant.

Sequoia.—ALLAN B. PATTERSON, forest supervisor, Hot Springs, Tulare County (WU via Ducor-WF); S. W. Wynne, deputy forest supervisor.

Shasta.—R. F. HAMMATT, forest supervisor, Sisson (P-WF); M. R. Tillotson, deputy forest supervisor; Stewart B. Show and Edward I. Kotok, forest assistants; J. T. Noddin, forest ranger, timber trespass; Pilgrim Creek Nursery, Fred W. Graham, assistant forest ranger, in charge, McCloud.

Sierra.—P. G. REDINGTON, forest supervisor, Northfork (WU via Friant-WF, Friant); M. A. Benedict, deputy forest supervisor; Ernest G. Dudley and Cary Hill, forest assistants; C. H. Ensign, lumberman, reconnaissance.

Stanislaus.—R. W. AYRES, forest supervisor, Sonora (WU-WF); T. C. West, deputy forest supervisor; J. V. Wulff, forest assistant.

Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU-WF); M. B. Pratt, deputy forest supervisor; K. Mills, Reese W. Taylor, and William H. Gallaher, forest assistants.

Trinity.—W. A. HUESTIS, forest supervisor, Weaverville (WU-WF); J. D. Coffman, deputy forest supervisor; Ernst V. Jotter and O. M. Evans, forest assistants.

NEVADA.

Eldorado.—See California.

Inyo.—See California.

Mono.—WM. M. MAULE, forest supervisor, Gardnerville (WU-WF); F. A. Wegner, forest assistant.

Tahoe.—See California.

DISTRICT 6.

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

GEO. H. CECIL, district forester; PHILIP H. DATER, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge; EARL C. ARNOLD, assistant to the solicitor.

ACCOUNTS.—A. H. COUSINS, district fiscal agent.

OPERATION.—C. H. FLORY, assistant district forester.

MAINTENANCE.—SHIRLEY BUCK.

SILVICULTURE.—F. E. AMES, assistant district forester; C. S. JUDD, assistant district forester; W. H. GIBBONS, investigation of logging costs; W. T. ANDREWS, lumberman; EDWIN C. ERICKSON and L. A. NELSON, scalers.

PLANTING.—J. F. KÜMMEL.

SILVICS.—T. T. MUNGER.

STUDIES.—E. J. Hanzlik, R. M. Evans, J. F. Pernot, Portland.

GRAZING.—T. P. MACKENZIE, assistant district forester.

LANDS.—C. J. BUCK, assistant district forester; land classification, J. ROY HARVEY, in charge; A. T. STRAHORN and T. D. RICE, soil experts; A. H. WRIGHT, in charge Cowlitz project; ASHER IRELAND, in charge Hebo project.

PRODUCTS.—H. B. OAKLEAF, in charge; C. W. Dunning, Portland; O. P. M. Goss, C. W. Zimmerman, H. P. Wyckoff, Cornelius Barry, Seattle, Wash.

FOREST INSECT FIELD STATION.

(Bureau of Entomology, Branch of Forest Insect Investigations.)

Station 6, Ashland, Oreg.—W. D. EDMONSTON, entomological assistant, in charge.

NATIONAL FORESTS.

ALASKA.

Chugach.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU-AP, Am); Thos. M. Hunt, deputy forest supervisor; Bruce Hoffman, forest assistant.

Tongass.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU-AP, Am); S. S. Swenning, deputy forest supervisor.

CALIFORNIA.

Crater.—See Oregon.

Siskiyou.—See Oregon.

OREGON.

Cascade.—C. R. SEITZ, forest supervisor, Eugene (WU, P-WF).

Crater.—M. L. ERICKSON, forest supervisor, Medford (WU, P-WF); H. D. Foster, William E. White, and O. W. Hodgman, forest assistants.

Deschutes.—MELVIN L. MERRITT, forest supervisor, Bend (WU, PT & T-GN).

Fremont.—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev.-P, WF); Nelson J. Billings, deputy forest supervisor; Norman G. Jacobson, forest assistant.

Klamath.—See California.

Malheur.—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker City-Am, WF via Baker City); D. B. Reynolds, deputy forest supervisor.

Minam.—H. W. HARRIS, forest supervisor, Wallowa (WU-Am); Ephraim Barnes, deputy forest supervisor.

Ochoco.—HOMER ROSS, forest supervisor, Prineville (WU, PT & T-Am); Allen Hodgson, deputy forest supervisor.

Oregon.—T. H. SHERRARD, forest supervisor, Portland (WU, P-Am, WF, N); Ralph S. Shelley, deputy forest supervisor; W. B. Osborne, forest assistant.

Paulina.—W. W. CRYDER, forest supervisor, Crescent (WU, PT & T-Ad, GN via Opal City).

Santiam.—F. H. BRUNDAGE, forest supervisor, Albany (WU, P-WF).

Siskiyou.—N. F. MACDUFF, forest supervisor, Grants Pass (WU, P-WF); H. Haefner, forest assistant.

Siuslaw.—A. E. COHOON, forest supervisor, Eugene (WU, P-WF); David E. Fitton, deputy forest supervisor; H. M. Johnson, forest assistant.

Umatilla.—HUGH B. RANKIN, forest supervisor, Heppner (WU, P-AM); G. A. Bright, forest assistant.

Umpqua.—S. C. BARTRUM, forest supervisor, Roseburg (WU, P-WF); George Bonebrake, deputy forest supervisor; Arthur Kerr, forest assistant.

Wallowa.—H. W. HARRIS, forest supervisor, Wallowa (WU-Am).

Wenaha.—See Washington.

Whitman.—HENRY IRELAND, forest supervisor, Sumpter (WU via Baker City-Am, WF via Baker City); E. H. McDaniels, deputy forest supervisor; B. Frank Heintzleman, Lawrence Pagter, and Hamilton M. Coan, forest assistants.

WASHINGTON.

Chelan.—G. W. MILHAM, forest supervisor, Chelan (PT & T-Am, GN via Wenatchee).

Columbia.—H. O. STABLER, forest supervisor, Portland, Oreg. (WU, P-Am, WF, N); W. W. G. Hastings, deputy forest supervisor; A. R. Wilcox, Lage Wernstedt, and C. P. Willis, forest assistants.

Colville.—C. C. REID, forest supervisor, Republic (WU, P-Am, GN); F. W. Cleator, deputy forest supervisor; Edward W. Headsten, forest assistant.

Okanogan.—H. M. HALE, forest supervisor, Okanogan (PT & T-Am, GN via Wenatchee); V. V. Harpham, deputy forest supervisor.

Olympic.—R. L. FROMME, forest supervisor, Olympia (WU, P-Am, GN, N); A. A. Parker, deputy forest supervisor.

Rainier.—G. F. ALLEN, forest supervisor, Tacoma (WU, P-Am, N); P. T. Harris, deputy forest supervisor.

Snoqualmie.—STANTON G. SMITH, forest supervisor, Seattle (WU, P-N, GN, WF); Lewis A. Treen, jr., deputy forest supervisor; Walter H. Leve and Alexander G. Jackson, forest assistants.

Washington.—C. H. PARKS, forest supervisor, Bellingham (WU, P-Am, GN, N).

Wenaha.—J. M. SCHMITZ, forest supervisor, Walla Walla (WU-Am, N).

Wenatchee.—A. H. SYLVESTER, forest supervisor, Leavenworth (WU-Am, GN); E. J. Fenby, forest assistant.

SERVICE CHANGES.

APPOINTED.

PRODUCTS.—Laboratory: Homer Cloukey and Alexander W. Beemer, assistant chemists in forest products.

ACQUISITION.—Louis H. Steffens and Eugene L. Lindsey, forest assistants; Samuel L. Chiles and Ernest P. Whitten, examiners of survey; George E. Marshall, timber estimator.

DISTRICT 1.—Operation: Assistant forest rangers—Emerson L. Yeager, Bitterroot; Percy B. Evans, Helena; John S. Paddock, Madison; Agnes Carter, clerk (stenographer and typewriter), Blackfeet; Lulu Mutschlechner, clerk (stenographer and typewriter), Kaniksu; Forest clerks—William M. Noble, Cabinet; Duane K. Lewis, Helena; Everard S. Hoek, Madison; David T. Noren, clerk, Kootenai. District office: Vina Sadler and Eunice E. Shearer, clerks (stenographers and typewriters).

DISTRICT 2.—Operation: Clerks (stenographers and typewriters)—Theresa A. Brady, Kansas; Charles B. Pool, Nebraska; Orpha U. Bartz, Routt; Aouida K. Wood, Sundance; forest clerks—John T. Brattin, Holy Cross; Raymond B. Morris, Montezuma; assistant forest rangers—Bertram A. Goodman and George M. Trickel, Arapaho; Hal L. Stults, Frank Tower, and Martin P. Wilson, Black Hills; Lewis L. Segur, Routt.

DISTRICT 3.—Operation: Assistant forest rangers—W. Eugene Goode, Datil; Louis Vernon Slonaker, Florida; Percy L. Bonebrake, Gila; Alfred W. Mullan, Alamo; Kenner C. Kartchner, Sitgreaves; Fred Merkle, Wichita; Elsie C. Myers, clerk (typewriter), district office; John Garcin, clerk, Coconino; M. Uva Pirkey, clerk (typewriter), Pecos. Silviculture: Jennie V. Watkins, clerk (typewriter), district office. Lands: Morton M. Cheney, clerk, district office.

District 4.—Operation: David A. Arrivee, forest assistant, Fishlake; clerks (stenographers and typewriters)—Antoinette Landgraf, district office; Inez M. Soule, Palisade; Olive Stevenson, Santa Rosa.

District 5.—Charles R. Adams, hydroelectrical engineer; Winifred E. Wickland, clerk (stenographer and typewriter), district office. Elizabeth A. Shepherd, clerk (typewriter), Angeles; Tipton E. Evans, forest clerk, Kern; Edward A. Shipsey, clerk (stenographer and typewriter), Kern; Frank A. Wegner, forest assistant, Mono; Frank A. Johnson, clerk (stenographer), Plumas; Roy R. Marsh, forest clerk, Sequoia; William E. Harris, clerk (stenographer and typewriter), Stanislaus.

District 6.—District office: Philip H. Dater, hydraulic electrical engineer. Operation: Will J. Sproat, forest assistant, Deschutes: Lehi C. Pratt, clerk, Malheur; Theo. F. Rixon, scaler, Olympic. Products: Harry K. Benson, agent, Seattle Laboratory.

RESTORED TO THE ROLLS.

District 1.—Operation: Assistant forest rangers—George A. Bignell, Blackfeet; Magnus J. Durant, Clearwater; Howard Drake, Coeur d'Alene; Charles A. Newman, Custer; Winston K. Harris, Deerlodge; Charles Larson, Helena; Malcolm K. Kedzie, Kootenai; Price Townsend, Lewis and Clark; Louis H. Foote, Lolo; Joseph W. Collette, forest clerk, Lolo. District office: Charles H. Adams, assistant district forester.

District 2.—Operation: Assistant forest rangers—Henry H. McCrary, Black Hills; Neil Campbell, Durango.

District 3.—Operation: Lillian M. Sutherland, clerk, Carson; Clarence F. Korstian, forest assistant, Coconino.

District 4.—Operation: Assistant forest rangers—Matthew Bowers, Manti; Marion E. Mahoney, Salmon; Elmer E. McGinniss, Weiser.

District 5.—Operation: John T. Noddin, forest ranger, Shasta; assistant forest rangers—Howard Hufford, Albert W. Bramhall, and Edmund M. Hufford, Lassen; Francis D. Bucklew and Ivan A. Cuff, Trinity; William H. Gallaher, forest assistant, Tahoe.

District 6.—Operation: Lawrence B. Pagter, forest assistant, Whitman; assistant forest rangers—Raymond H. Thompson, Colville; Wm. Raithel, Olympic; Herman N. Wallace, Siskiyou; Clarence Anderson, Snoqualmie; Lovell E. Tipton, Umatilla; John C. Kuhns, Umpqua; John S. Brender, Wenatchee; Chas. F. Groom, Whitman. Products: Halsey P. Wyckoff, assistant engineer in forest products, Seattle Laboratory.

REINSTATED.

District 1.—Operation: Harry C. Hockett, assistant forest ranger, Lolo; Walter A. Donaldson, forest ranger, St. Joe.

District 4.—Operation: Effie Jensen, forest clerk, Cache.

District 6.—Operation: Chas. C. Hon, forest ranger, Oregon; James McKenzie, assistant forest ranger, Chelan.

CHANGE IN DESIGNATION.

District 1.—Operation: Charles A. McElroy, expert in mining claims to land examiner.

District 2.—Operation: David C. Montgomery, jr., forest ranger to clerk, White River.

District 3.—Operation: James F. Mullen, from deputy forest supervisor to forest examiner, district office.

District 4.—Operation: Nils B. Eckbo, forest agent to forest assistant, Uinta.

District 5.—District office: Frederick H. Fowler, hydroelectrical engineer to district engineer. Lands: James O. Morrow, deputy forest supervisor to forest examiner, assigned to lands classification work. Products: Percy R. Hicks, engineer in wood preservation to engineer in forest products.

District 6.—Products: Joseph B. Knapp, assistant district forester to engineer in timber tests, district office.

TRANSFERRED.

District 1.—Operation: Forest assistants transferred to reconnaissance—Waldo D. Barlow, Charles R. Clark, John C. De Camp, Henry W. de Nancrede, Richard C. Eggleston, James R. Gillis, H. J. A. Grossman, Alfred B. Hastings, John C. Ketridge, J. A. Larsen, Frederick R. Mason, Talmage E. Miller, Carl M. Stevens, Kenneth D. Swan, and James C. Whitham; Frank J. Mosher, forest assistant, from District 3 to reconnaissance, District 1; Charles F. Howell, deputy forest supervisor, from Pend Oreille to Selway; George E. Martin, deputy forest supervisor, from Beaverhead to Custer; Dorr Skeels from forest supervisor, Kootenai, to district office.

District 2.—Louis V. Woulfe, clerk, district office to Washington. Operation: Forest supervisors—C. M. Granger, Medicine Bow to district office; H. N. Wheeler, District 5 to District 2 (Colorado); deputy forest supervisors—Geo. A. Duthie, Pike to Medicine Bow; Rolland A. Stretch, Medicine Bow to District 4; R. B. Adams, superintendent of telephone construction, District 1 to district office; Margaret N. Hendricks, clerk (stenographer and typewriter), Routt to district office; B. M. Shoemaker, forest clerk, Holy Cross to Leadville; assistant forest rangers—J. M. Dougherty, District 5 to District 2 (Colorado); Harry P. Reifsneider, District 3 to District 2 (Superior); Calvin A. Dahlgren, Superior to District 1. Silviculture: Forest assistants—F. B. Notestein, Fremont Station to Wagon Wheel Gap Station; E. S. Keithley, Durango to Pike; M. J. Sweeney, Rio Grande to San Juan; Percy T. Smith, Harney to Black Hills.

District 3.—Accounts: Charles C. Carr, clerk, from Carson to district office. Operation: Paul P. Pitchlynn, deputy forest supervisor, from Gila to district office; Harry P. Reifsneider, assistant forest ranger, from Gila to District 2; Fred Merkle, assistant forest ranger, from Wichita to Zuni. Silviculture: Oliver F. Bishop, forest assistant, from Jemez to district office. Lands: Frederic Winn, deputy forest supervisor, from Apache to district office; Lee A. Harris, deputy forest supervisor, from Sitgreaves to district office.

District 4.—Operation: Lucas W. Hastings, deputy forest supervisor, Palisade to Caribou; Rolland A. Stretch, forest assistant, District 2 to Wyoming; William Swan, forest ranger, Idaho Land Exchange to Salmon; Wallwin T. Job, assistant forest ranger, Challis to Humboldt; August A. Schroeder, assistant forest ranger, Idaho Land Exchange to Salmon; Mary M. Childs, clerk (land law), District 4 to District 7; Veronica Tegethoff, clerk, Santa Rosa to District 7.

District 5.—Operation: Beatrice Boreman, clerk (typewriter), district office to Washington; Ernest B. Long, forest ranger, Shasta to Angeles; Frank Helfrich, forest ranger, Shasta to Monterey; Howard A. Thrall, Angeles to lands classification, district office; Jefferson M. Dougherty, assistant forest ranger, Trinity to District 2.

Products: Geo. M. Hunt, assistant chemist in forest products, district office to District 6.

District 6.—Operation: Samuel S. Swenning, deputy forest supervisor, Crater to Tongass; H. E. Newman, assistant forest ranger, Columbia to Santiam; Edwin J. Fenby, forest assistant, Wenatchee to Rainier; Harold E. Smith, assistant forest ranger, Columbia to Deschutes; Asher Ireland, forest ranger, Umpqua to district office; Adam H. Wright, forest ranger, Colville to district office. Products: George M. Hunt, assistant chemist in forest products, District 5 to District 6, Seattle Laboratory.

PROMOTED IN RANK.

Products.—Laboratory: Howard F. Weiss, from assistant director to director.

District 2.—Operation: C. M. Granger, forest supervisor to assistant district forester; Geo. A. Duthie, deputy forest supervisor to forest supervisor, Medicine Bow; Leslie M. Brownell, forest ranger to deputy forest supervisor, Superior; assistant forest rangers to forest rangers—D. Kirk Shaw, White River; J. M. Dougherty, Holy Cross. Silviculture: Forest assistants to forest examiners—C. G. Bates, J. H. Potts, and Seward D. Smith, district office; F. B. Notestein and Peter Keplinger, Wagon Wheel Gap Experiment Station; Arthur T. Upson, Arapaho; Charles F. Bliss, Cochetopa; Roy S. Wheeler, Hayden; Jas. E. Martin, Leadville; W. I. Hutchinson, Pike; Jay Higgins, Rio Grande; Percy J. Paxton, Routt; Albin H. Hamel, San Isabel; J. H. Ramskill, Uncompahgre; Crosby A. Hoar, White River.

District 3.—Operation: Assistant forest rangers to forest rangers—Don S. Sullivan, Chiricahua; Charles H. Kissam, Gila; Ben F. Vaughan, Ozark; William R. Ashurst, Sitgreaves; Robert R. Moak, Zuni; Paul P. Pitchlynn, forest ranger to deputy forest supervisor, district office.

District 4.—Operation: Ernest Winkler, deputy forest supervisor, Manti, to forest supervisor, Fillmore; Bernard E. Mattson, forest ranger, Fishlake, to deputy forest supervisor, Manti; George G. Henderson, assistant forest ranger to forest ranger, Pocatello.

District 5.—Operation: Frank P. Cunningham, forest ranger, Shasta, to deputy forest supervisor, Kern; Harry R. Powers, assistant forest ranger to forest ranger, Shasta.

LEAVE WITHOUT PAY.

District 1.—Operation: Assistant forest rangers—George A. Perry, Beartooth; Percy Knowles and Winthrope H. Young, Bitterroot; Magnus J. Durant, Clearwater; Howard Drake, Coeur d'Alene; Winston K. Harris, Deerlodge; Ralph J. Eveleth, Jefferson; Ray R. Fitting, Selway; Samuel J. Emswiler and David F. McGill, Sioux; Chester N. Whitney, forest assistant, Deerlodge.

District 2.—Operation: Assistant forest rangers—Guy E. Tefft, Durango; Jesse L. Trickel, Gunnison.

District 3.—Operation: Forest rangers—Robert F. Rhinehart, Datil; Jay L. B. Taylor, Prescott; assistant forest rangers—Jennings D. McLeod, Ozark; Osmer D. Flake, Sitgreaves.

District 5.—Operation: James V. Seaman, assistant forest ranger, Angeles; Arthur W. Bartlett, deputy forest supervisor, California.

District 6.—Operation: Assistant forest rangers—Ernest Jameson, Okanogan; John D. Holst, Crater; Joseph H. Prout, Oregon; Theo. F. Rixon, expert, Olympic; Warren M. Cooper, forest ranger, Olympic.

FURLOUGHED.

District 1.—Operation: Assistant forest rangers—Walter F. Gilliam, Bitterroot; Charles A. Newman, Custer; Armon E. Havens, Ray I. Trueman, and Ellis B. Hoke, Flathead; Charles Larson, Helena; Thomas E. Herrington, Kootenai; Joe M. Taylor, Missoula.

District 2.—Operation: Assistant forest rangers—Henry H. McCrary, Harney; Robert K. Potter, White River. Silviculture: Stephen V. Klem, forest assistant, Harney.

District 4.—Operation: Assistant forest rangers—Charles A. Chitwood, Idaho; J. Robert Logan, Targhee.

District 6.—Operation: Forest assistants—Edward W. Headsten, Colville; Hamilton M. Coan and Lawrence B. Pagter, Whitman; assistant forest rangers—Wm. Raithel and Herman N. Wallace, Siskiyou; Ernest J. Moore, Snoqualmie.

RESIGNED.

Acquisition.—Daniel W. Adams, lumberman.

Products.—Laboratory: Lee F. Hawley, chemist in forest products; Francis S. Bond, engineer in forest products.

District 1.—Operation: Forest assistants—Warren F. Hale, Absaroka; Aretas A. Saunders, Lewis and Clark; clerks (stenographers and typewriters)—Mayme L. Schmidt, Clearwater; Albert H. Sundahl, Pend Oreille; Mayme E. Butler and Lelah Marquette, district office; clerks—Emily Perrine, Jefferson; Walter R. Otis, Kootenai; Ella L. Martin, Nezperce; Harry C. Schick, forest ranger, Lewis and Clark; Francis G. Gregory, forest clerk, Lolo; Charles H. Ruth, draftsman (topographic), district office: assistant forest rangers—William H. Morse, Beartooth; Charles A. Strodtbeck, Blackfeet; George W. Burke, Coeur d'Alene; James D. Shy, Custer; John Frey, Helena; Samuel A. Kittams and Alva J. Vinton, Jefferson; George B. Rowe, Madison; Edmund C. Johnson, St. Joe. Silviculture: Howard A. Green, forest assistant.

District 2.—Operation: H. A. E. Marshall, forest supervisor, Colorado; forest clerks—John T. Brattin, Holy Cross; Walter A. Wood, Montezuma; Mary L. Fopless, clerk (stenographer and typewriter), Rio Grande; assistant forest rangers—Phil K. Stephens, district office; Jesse E. Wolfe, Arapaho; Felix Newton, Black Hills; John F. Felter, Cochetopa; Walter I. Mickey, Hayden; John B. Green, Holy Cross; Samuel J. Sease, Montezuma; Reese L. Lee, Rio Grande; Harvey C. Hurd, Routt; Clifford T. Adams, Sundance. Silviculture: Sydney L. Moore, assistant district forester, district office; forest assistants—Harold C. Clark, Bighorn; Wm. H. Mast, Gunnison.

District 3.—Operation: Roscoe G. Willson, forest supervisor, Tonto; Charles W. Craig, clerk (stenographer and typewriter), Sitgreaves; forest clerks—George L. Leboeuf, Crook; Glen W. Dickinson, Florida; Charles J. Wohlken, Zuni; forest rangers—Guy Brewer, Arkansas; Cecil R. C. Reindorp, Gila; Claude Thompson, Coconino; assistant forest rangers—Drue Underwood, Apache; William P. Lawson,

Arkansas; Alexander G. Browne, Florida; Ralph L. Bateman, Prescott; Lafayette A. Phillips, Tusayan; George A. Reed, Tusayan; William C. Roderus, Prescott. Silviculture: Arthur B. Recknagel, assistant district forester, district office; John H. Allison, forest examiner; Oliver F. Bishop, forest assistant.

District 4.—Accounts: Pearl Mole, clerk (typewriter). Operation: Forest supervisors—William Hurst, Fillmore; C. Sydney Tremewan, Humboldt; Julian E. Rothery, Idaho; forest rangers—Albert Tuft, Fishlake; James D. McCall, Idaho; assistant forest rangers—Henry K. Lewis, Boise; Maurice B. Cross, Humboldt; Robert W. Strong, La Sal; Truman R. Peters, Minidoka; William Louderbough, Payette; forest clerks—Alfred P. Larson, Humboldt; Waldo C. Neil, Palisade. Property audit: Mae E. Williams, clerk (stenographer and typewriter).

District 5.—Walter L. Huber, hydroelectrical engineer, district office. Operation: Edith M. Helgesson, clerk (stenographer and typewriter), district office; James A. Bristol, clerk (stenographer and typewriter), Stanislaus; assistant forest rangers—Grover C. Cleveland, Inyo; Robert C. McKenzie, Sierra; forest clerks—Howard E. Clark, Kern; Merle J. Pettis, Sequoia.

District 6.—W. E. Herring, district engineer, district office. Operation: Harold P. Gilkey, forest assistant, Whitman; Elmer W. Gribble, forest ranger, Oregon; assistant forest rangers—Amos O. Masiker, Chelan; Walter T. Morris, Ochoco; Carl C. Hill, Oregon; Clarence R. Pope, Snoqualmie; Carl E. Bell, Washington.

APPOINTMENT TERMINATED.

Acquisition.—David H. S. Tappan, M. Stuart Davis, examiners of survey.

District 1.—Operation: Abel C. Berglund, forest ranger, Gallatin; Foster G. Smith, assistant forest ranger, Deerlodge.

District 2.—Operation: B. Richard Ferris, clerk (stenographer and typewriter), Nebraska; Eugene M. Stone, assistant forest ranger, Uncompahgre.

District 5.—Operation: Clerks (stenographers and typewriters)—Helen Lane, district office; Frances B. Frost, Eldorado; Ruth G. Trimble, Trinity; Sarah Loftus, clerk (typewriter), Stanislaus; Frank A. Wegner, field examiner, Mono.

District 6.—Operation: Forest assistants—George L. Drake, and Wm. J. Paeth, Crater; George Y. Baker and Francis S. Fuller, Deschutes.

SUSPENDED.

District 4.—Operation: James H. Johnson, forest ranger, Caribou.

DISMISSED.

District 1.—Operation: Edgar C. Williams, assistant forest ranger, Coeur d'Alene.

With deep regret announcement is made of the following deaths: John D. F. Beard, forest ranger, Tonto National Forest, January 19; Raymond R. Rogers, forest ranger, Lincoln National Forest, March 18; Charles H. Evarts, clerk, district office, Albuquerque, N. Mex., February 16; Guy N. Hubbard, forest ranger, Malheur National Forest.

SERVICE NOTES FOR APRIL.

These notes contain instructions and necessary information to forest officers, and will therefore be carefully read and kept on file for reference.

LAW.

OFFICE OF THE SOLICITOR.

Law Cases in District 2—

The case of the United States *v.* Martin Farrell, involving a timber trespass on the Medicine Bow National Forest, was settled by the payment by defendant of $29.08.

The case of the United States *v.* Lanphere-Hinrichs Company, involving a timber trespass on the Black Hills National Forest, was settled by the payment by defendant of $203.26.

The case of the United States *v.* George Winters, involving a timber trespass on the Pike National Forest, was settled by the payment by defendant of $99.21.

In the case of the United States *v.* Warshauer-McClure Sheep Co., Antonio Salazar, Carlota v. de Archuleta, and Guadalupe Salazar, involving a grazing trespass on the San Juan and Rio Grande National Forests, criminal proceedings against herders were dropped by Attorney General with approval of the Secretary of Agriculture upon payment of $391.25 damages in civil case.

In the case of the United States *v.* George Korab, a temporary restraining order was granted by the court at Sioux Falls, S. Dak., on February 24, 1913, restraining Korab from cutting timber for sale from his homestead pending the final adjudication by the Interior Department of the adverse proceedings against his entry.

In the case of the United States *v.* John White, involving a violation of the State game laws of South Dakota, the defendant, on December 24, 1912, was bound over for trial before the circuit court at Deadwood, S. Dak., and released on $1,000 bond. The case was set for trial on April 2, 1913.

In the case of United States *v.* Denver, Northwestern and Pacific Railway Company, wherein the Government sought to recover for damage done to mature live and dead timber and reproduction on the Arapaho National Forest by a fire started by one of the company's engines, a trial was held on January 28, 29, and 30, which resulted in a verdict of $1,306.04 and costs in favor of the Government. The defendant company has filed a motion for a new trial upon the ground of newly discovered evidence.

Law Cases in District 3—

H. O. Bursum, grazing trespass (civil), Datil. Case closed on payment of $87.64, value of the forage consumed.

Thomas Parker, timber trespass (civil), Ozark. January 20, 1913, confessed judgment for $72.58, amount sued for; $67 paid on judgment.

Manuel Gomez, grazing trespass (civil), Jemez. Settled for $35 on demand of United States attorney.

Law Cases in District 4—

United States *v.* Hans Hansen Hedemark: Additional homestead entry, Cache National Forest. "P—Salt Lake City No. 010217 and 07877." The Commissioner of the General Land Office, March 1, 1913, decided that a squatter who had settled upon public lands prior to their inclusion within a National Forest, exhausted his right of entry in the matter of the lands settled upon where he had applied for, accepted the listing of, and entered $17\frac{74}{100}$ acres of such lands; that he could not make an additional entry of a portion of the lands settled upon by him unless the same was first listed by the Forest Service.

United States *v.* Loe Brothers: Breach of timber sale contract, Weiser National Forest. This case was settled by payment by the defendants of the sum of $300.

United States *v.* Alexander Ross: Grazing trespass on the Payette National Forest. February 10, the defendant entered a plea of guilty to the information charging him with a grazing trespass and the court imposed a fine of $10.

United States *v.* James L. Neilson: Grazing trespass on the Nebo National Forest. Defendant settled by payment of $5 actual damages, $15 punitive damages, and $15.50 costs, making a total of $35.50.

United States *v.* P. A. Quickert: Grazing trespass, Payette National Forest. Defendant settled as follows: Actual damages $9.50, punitive damages $12.50, costs $25.32; making a total of $47.32.

United States *v.* Beaver River Power Company: Occupancy trespass on the Fillmore National Forest. On March 31, 1913, Judge Marshal, of the Federal court for the district of Utah, decided that the defendant company could not maintain and operate its plant upon the Fillmore National Forest without first complying with the rules and regulations of the Secretary of the Department of Agriculture relating to power permits. The plant was constructed upon lands of the United States subsequent to the withdrawal of the same for National Forest purposes.

United States *v.* Utah Power & Light Company: Occupancy trespass on the Wasatch National Forest. On March 31, 1913, Judge Marshal, of the Federal court for the district of Utah, decided that the defendant company was entitled to maintain a pipe line or conduit, a reservoir and a steel pressure pipe line upon National Forest land without securing a permit, but that the defendant company was not authorized to maintain transmission lines, telephone lines, tramway, or buildings without securing a permit. The entire plant in this case was constructed upon public lands prior to their inclusion within a National Forest. The court held that the right to maintain the reservoir, conduit, and steel pressure pipe line vested under rights granted by sections 2339 and 2340 of the Revised Statutes.

United States *v.* Utah Power & Light Company: Occupancy trespass on the Cache National Forest. On March 31, 1913, Judge Marshal, of the district court for the State of Utah, decided that the defendant company had the right under sections 2339 and 2340 to maintain a flume and reservoir upon National Forest lands without permit. Such flume and reservoir were constructed upon public lands several years prior to the inclusion of the lands within the Cache National Forest.

Law cases in District 6—

United States *v.* Dixie Meadows Mining Co., timber trespass, Whitman National Forest; closed January 11, 1913, on receipt of check for $799.08 from the company in

full settlement of the trespass against them. The company had previously paid $440.65 in part payment.

United States *v.* F. A. Gaylord, grazing trespass, Wallowa National Forest; closed February 6 on payment of $45 by the trespasser, the amount being a compromise of suit instituted for $23.43 actual and $50 punitive damages.

United States *v.* Antone Kestner and wife, fire trespass, Olympic National Forest. Defendants were indicted February 5, 1913, under sections 52 and 53 of the Penal Code. February 24 Mrs. Kestner pleaded guilty and the case against her husband was dismissed. The court fined Mrs. Kestner $75 without costs. The civil case for damages to the amount of $1,629.94 is still pending.

OPERATION.

Notice of Reward—

OFFICE OF THE SECRETARY,
UNITED STATES DEPARTMENT OF AGRICULTURE,
March 1, 1913.

Hereafter, during the fiscal year ending June 30, 1913, and thereafter, unless otherwise ordered, provided Congress shall make the necessary appropriation or authorize the payment thereof, the Department of Agriculture will pay not exceeding $100 and not less than $25, for information leading to the arrest and conviction in any United States court of any person charged with destroying or stealing any property of the United States within the custody of the Forester, Forest Service, United States Department of Agriculture.

This reward will be paid to the person or persons giving the information leading to such arrest or conviction upon presentation to the Department of Agriculture of satisfactory evidence thereof, subject to the necessary appropriation as aforesaid or otherwise as may be provided.

Officers and employees in the Department of Agriculture are barred from receiving such rewards.

The Department of Agriculture reserves the right to refuse payment of any claim for reward when, in its opinion, there has been collusion or improper methods used to secure arrest and conviction, and to allow only one reward where several persons have been convicted of the same offense or where one person has been convicted of several offenses, unless the circumstances have entitled the person to a reward on each conviction.

Applications for reward, made in pursuance of the above notice, should be forwarded to the Forester, Washington, D. C., but no claim will be considered unless presented within three months from the date of the conviction of an offender. In order that all claimants for rewards may have opportunity to present their claim within the prescribed limit, the department will not take action with respect to rewards for three months from the date of the conviction of an offender.

JAMES WILSON,
Secretary of Agriculture.

Schedule of Supplies for Ogden Supply Depot—

The Forest Service Supply Depot, Ogden, Utah, will have its own contract schedule of supplies for the next fiscal year. Bids for furnishing these supplies will be opened

in the Office of the Chief Clerk, Department of Agriculture, Washington, D. C., at 2 p. m. Friday, May 2, 1913. The awards will be made soon after that date and the forest supervisors will be notified regarding the contractors and prices for telephone equipment and barbed wire in order that they may be able to place their orders in time to insure early delivery at the beginning of the fiscal year.

Proclamation—

The proclamation of March 3, 1913, affecting the Kaniksu, Pend Oreille, and Payette National Forests, was issued in accordance with the cooperative agreement of October 4, 1911, between the Secretary of Agriculture and the governor of the State of Idaho, whereby the State relinquished its claim to 548,157 acres of unsurveyed school sections within the National Forests of the State of Idaho in lieu of approximately 193,000 acres of timber land, principally from within the Kaniksu National Forest, and the remaining, 355,157 acres, which will be selected by the State from the vacant public lands outside the National Forests suitable for grazing purposes and lying principally adjacent to Bannock, Bingham, and Bonneville Counties.

Portals—

It has been found desirable on some Forests to erect portals at the intersection of important highways and Forest boundaries, since they serve as a warning to large numbers of visitors who use the Forests for camping, hunting, fishing, and other recreation. It is probable that about 20 per cent of forest fires are caused by the carelessness of visitors, and some of this hazard may be decreased if they are made to realize when they have entered an area which is vigorously patrolled by forest officers.

There is no general order for the erection of portals nor has any allotment been made for such work. Some have been built under circumstances which involved no cost to the Government. If they are to be erected it is desirable that they shall serve a useful purpose and be dignified in appearance. Therefore several designs have been prepared, two of which have been issued to district foresters. Others may be prepared and issued as the demand for them arises.

Form 988, revised January 8, 1913—

In future all requisitions for photographic work or supplies must be made upon this revised form. Failure to do this will result in inconvenience and delay. Photographic films have been made expendable property, and since the keeping of charge and credit accounts has been discontinued, the photographer's record will in future be kept on the back of the revised form in the space provided for that purpose.

LANDS.

Settlement—Notification to Applicants of Exception Surveys—

Reference is made to the note on page 134 of the April, 1911, Field Program. Hereafter the practice of notifying applicants under the act of June 11, 1906, that they will be obliged to pay for the survey of strips excepted from lists filed upon their applications, will be discontinued. However, the usual notification to applicants that listings have been made subject to such exceptions should be continued.

Settlement—Notification to Applicants of Proposed Eliminations—

(Circular letter of January 30, 1913.)

The Forest Service has endeavored for some time to secure a ruling from the Interior Department that the elimination of land from a National Forest will not affect the statu of areas previously listed under the act of June 11, 1906, or the preference right of the applicant thereto, prior to entry. That department, however, holds that the elimination of lands from a National Forest that have been previously listed under the act of June 11, 1906, and that have not been entered, restores these lands to the public domain for entry under the general public-land laws, and that the June 11 applicant has no preference right thereto, but that if such applicant is an occupant of the land at the time of the elimination, his preference right will be recognized. It also holds that the occupation under special-use permit will protect and preserve the preference right of such applicant.

In order, therefore, to protect the applicants within areas approved for elimination from the National Forests, the following procedure will hereafter be observed in the Washington office: As soon as any elimination is finally approved by the Forester and while the proclamation is being prepared, the office of boundaries will inform the branch of lands of the area which will be recommended for elimination. The section of status in the branch of lands will then secure a statement of all tracts listed under the act of June 11, 1906, within the area to be eliminated, which have not been opened to entry for more than 60 days. When this statement is secured, letters to the applicants concerned will be prepared in the branch of lands at the Washington office, advising them of the holding of the Interior Department as set forth in the first paragraph of this letter and that if they are not already occupying the lands for which they have applied they can protect and preserve their preference right by taking possession of such lands under a special-use permit. At the same time the district forester will be notified not to accept any further applications on the area to be eliminated.

Settlement—Amendments Nos. 157 and 158—

Attention is called to amendments Nos. 157 and 158 to the Claims Manual, which are now in print. These amendments modify the instructions with reference to the listing of small areas and with reference to the naming of preferred applicants in listing letters.

Settlement—Amendment of Lists—

On February 9, 1913, in the matter of amended list No. 44, the First Assistant Secretary of the Interior held that where a list under the act of June 11, 1906, had been opened to entry and such listing was afterwards amended by omitting some of the lands described in the original list, the lands thus omitted did not revert to the former condition of withdrawn lands upon the opening to entry of the lands described in such amendatory lists. This does not mean that lands listed under the act of June 11, 1906, but not entered, are not a part of the National Forest and subject to administration as such, but simply that lands which have been listed and opened to entry under that act are thereafter subject to entry by any qualified entryman without further action by this department.

Settlement—Indian Allotments of Listed Lands—

The Assistant Secretary of the Interior on March 14, 1913, in the case of L–Klamath, Settlement, Indian Allotment, Mrs. Annie Stevens, held that lands which have been listed under the act of June 11, 1906, are not subject to Indian allotment under the act of June 25, 1910 (36 Stat., 855).

SERVICE PUBLICATIONS ISSUED.

Bulletin 115. Mechanical Properties of Western Hemlock.
Bulletin 121. Forestation of the Sandhills of Nebraska and Kansas.
Bulletin 122. Mechanical Properties of Western Larch.
Bulletin 125. The Composite Type on the Apache National Forest.
Circular 211. Greenheart.
Circular 212. Circassian Walnut.
Circular 213. Mechanical Properties of Woods Grown in the United States.
Circular 214. Tests of Packing Boxes of Various Forms.
Circular 216. Effect of Forest Fires on Standing Hardwood Timber.
Unnumbered. Purchase of Land Under Weeks Law in Southern Appalachian and White Mountains (Revised).
Unnumbered. Review of Forest Service Investigations. Vol. I.
Unnumbered. National Forest Manual—Water Power.

CUMULATIVE INDEX TO SERVICE NOTES AND ORDERS.

(JULY, 1912–APRIL, 1913.)

[Numbers in parentheses after the month indicate page.]

Amendment of lists; April (124).
to agricultural appropriation bill, land classification; January (96).
to letter of authorization—reimbursement for expenses; January (92).
Amendments Nos. 157 and 158; April (124).
to Manual. (*See* Manual, amendments to.)
Attendance at meetings or conventions; July (24).
Authorization, amendment of letter of; January (92).
Claims; October (58–60); January (94).
Construction act of August 10, 1912; January (95).
Delayed publications; July (24).
Fire cooperation by postal employees; July (26).
trespass. (*See* Trespass, fire.)
Form 331 revised; July (28).
110, error in; January (96).
988 revised; April (123).
General order 155; July (24).
Grazing trespass. (*See* Trespass, grazing.)
Indian allotments; January (95).
of listed lands; April (125).
Insect infestations; January (93).
Land classification, amendment to agricultural appropriation bill; January (96).
Land Office corners, restoration of lost or obliterated; January (93).
Lands, claims; October (58–60); January (94).
settlement; October (58–60); January (94–96); April (123–125).
Law cases in district 1: July (25); October (56).
2: July (25); January (90); April (120).
3: July (25); October (56–57); January (91); April (120).
4: July (26); October (57); January (91); April (121).
5: July (26); October (57); January (92).
6: July (26); October (57); January (92); April (121).
Manual, amendments to; July (28); October (59–60); April (124).
National Forests, proclamation affecting; April (123).
transfer of Minnesota and Michigan; January (93).
Notice of reward; April (122).
Notification to applicants of exception surveys; April (123).
proposed eliminations; April (124).

Occupancy trespass. (*See* Trespass, occupancy).
Photo-prints album; October (57).
Portals; April (123).
Power possibilities, information in listing letters concerning; January (94).
Proclamation; April (123).
Protractor, lookout station; July (28).
Reimbursement for expenses—letter of authorization amended; January (92).
Reward, notice of; April (122).
Schedule of supplies for Ogden Supply Depot; April (122)
Settlement; October (58–60); January (94–96); April (123–125).
Signs, symbols, and colors; July (27).
Squatters' claims, amount of cultivation required; January (94).
Standard chain tapes; January (92).
Subsistence for one day after arrival; July (26).
Supplies for Ogden Supply Depot, schedule of; April (122).
Telescope, lookout station; January (93).
Timber trespass. (*See* Trespass, timber.)
Transfer of Minnesota and Michigan Forests; January (93).
Trespass cases, fire, district 2; July (25); January (90); April (120).
district 3; January (91).
district 6; July (26); January (92); April (122).
grazing, district 2; July (25); January (90); April (120).
district 3; July (25); October (56–57); January (91); April (120).
district 4; July (26); October (57); January (91); April (121).
district 5; October (57); January (92).
district 6; July (26); October (57); January (92); April (122).
occupancy, district 2; July (25).
district 4; July (26); October (57); January (92); April (121).
district 6; July (26).
timber, district 1; July (25).
district 2; July (25); January (90); April (120).
district 3; July (25); October (56); January (91); April (120).
district 4; July (26); April (121).
district 5; October (57).
district 6; January (92); April (121).

Issued January 15, 1914.

UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.

HENRY S. GRAVES, Forester.

January Field Program, 1914.

This program of field work and assignments in the Forest Service is issued quarterly on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

OFFICE OF THE FORESTER.

HENRY S. GRAVES, Forester.
ALBERT F. POTTER, Associate Forester.

HERBERT A. SMITH, editor; BRISTOW ADAMS, in charge of information.
FINDLEY BURNS, in charge of technical review.
Educational cooperation, DON CARLOS ELLIS.
Proofs and forms, CLAUDE M. BALLARD.
GEORGE B. SUDWORTH, dendrologist.
EUGENE S. BRUCE, expert lumberman.

ACCOUNTS.

M. E. FAGAN, chief; E. A. MELZAR, assistant chief.

OPERATION.

JAMES B. ADAMS, assistant forester, in charge; D. D. BRONSON, forest inspector; GEORGE G. ANDERSON, administrative assistant.

GEOGRAPHY.—C. A. KOLB, acting chief.

ATLAS.—G. B. BRUCE.

DRAFTING.—C. A. KOLB.

PHOTOGRAPHY.—E. S. SHIPP.

ALIENATION.—J. B. SATTERLEE.

MAINTENANCE.—GEORGE A. BENTLEY, chief.

SUPPLIES.—S. L. MCLAURIN, property clerk.

SILVICULTURE.

W. B. GREELEY, assistant forester, in charge; EARLE H. CLAPP, forest inspector; R. Y. STUART, forest inspector; AUSTIN CARY, logging engineer; BARRINGTON MOORE, forest plans; HARRY IRION, office assistant. FRANKLIN H. SMITH, statistician in forest products, special detail, 501 Federal Building, Chicago, Ill.

STATE COOPERATION.—J. G. PETERS, chief.

Collaborators, State cooperative fire protection under the Weeks law.—B. S. Viles, land agent and forest commissioner, Augusta, Me.; E. C. Hirst, State forester, Concord, N. H.; F. H. Billard, forester, New Hampshire Timberland Owners' Association, Berlin, N. H.; A. F. Hawes, State forester, Burlington, Vt.; F. W. Rane, State forester, Boston, Mass.; W. O. Filley, State forester, New Haven, Conn.; W. G. Howard, assistant superintendent of forests, Albany, N. Y.; C. P. Wilber, State fire warden, Trenton, N. J.; F. W. Besley, State forester, Baltimore, Md.; J. A. Viquesney, forest, game, and fish warden, Belington, W. Va.; J. E. Barton, State forester, Frankfort, Ky.; E. M. Griffith, State forester, Madison, Wis.; Wm. T. Cox, State forester, St. Paul, Minn.; G. W. Roskie, State forester, Custer, S. Dak.; ———, State forester, Helena, Mont.; G. A. Day, State land commissioner, Boise, Idaho; F. A. Elliott, State forester, Salem, Oreg.; E. W. Ferris, State forester and fire warden, Olympia, Wash.

Inspection.—L. S. Murphy.

Study of forest conditions in North Carolina in cooperation with State Geological and Economic Survey.—J. S. Holmes, Chapel Hill.

Compilation of State forest laws.—Miss J. S. Peyton.

FOREST INVESTIGATIONS.—RAPHAEL ZON, chief; S. T. DANA, assistant chief.

Studies.—E. H. Frothingham, W. D. Sterrett, C. R. Tillotson, G. N. Lamb, W. R. Mattoon, G. E. Clement, C. H. Shinn.

FOREST DISTRIBUTION.—W. H. LAMB, in charge; Miss G. E. Wharton.

COMPUTING.—W. B. BARROWS.

LIBRARY.—Miss H. E. STOCKBRIDGE.

COMPILATION.—GEO. DE S. CANAVARRO; Miss E. B. Leech.

Cloquet Experiment Station in cooperation with the University of Minnesota.—W. H. Kenety, Cloquet, Minn.

GRAZING.

A. F. POTTER, associate forester, in charge; L. F. KNEIPP, assistant forester; WILL C. BARNES, inspector of grazing.

GRAZING STUDIES (in cooperation with F. V. Coville, botanist, Bureau of Plant Industry).—James T. Jardine, inspector of grazing, in charge, Washington, D. C.

Forage investigations.—William A. Dayton, plant ecologist, Washington, D. C.

William R. Chapline, grazing assistant, Washington, D. C.

LANDS.

JAMES B. ADAMS, assistant forester, in charge; W. J. MANGAN, examiner.

LAND CLASSIFICATION.— ———, in charge; ROBERT V. R. REYNOLDS, forest examiner.

AGRICULTURAL CLASSIFICATION.— ———, in charge.

SETTLEMENT.—F. L. HARVEY, in charge.

BOUNDARIES.—H. E. WOOLLEY, in charge.

WATER POWER.—O. C. MERRILL, chief engineer; T. W. NORCROSS, assistant chief engineer.

CLAIMS AND OCCUPANCY.—CHARLES H. SQUIRE, in charge.

PRODUCTS.

W. B. GREELEY, assistant forester, in charge.

FOREST PRODUCTS LABORATORY (in cooperation with the University of Wisconsin, Madison, Wis.).—HOWARD F. WEISS, director.

H. S. BETTS and CARLILE P. WINSLOW, administrative assistants.

ADVISORY BOARD.—Dr. W. K. Hatt, mechanical and civil engineer, Purdue University; Prof. Charles F. Burgess, chemical engineer, and Dr. L. R. Ingersoll, professor of physics, University of Wisconsin.

Design of laboratory equipment.—ROLF THELEN.

Review of results.—FRANK J. HALLAUER.

CHEMISTRY AND DISTILLATION.—ERNEST BATEMAN, acting in charge; A. W. Schorger, F. W. Kressman, R. C. Palmer, Geo. E. Hunt, Homer Cloukey, Lester E. Cover.

ENGINEERING.—A. L. HEIM, in charge; James O. Bixby, O. M. Sutherland, Harry N. Knowlton.

MAINTENANCE.—CHAS. P. JUCKEM, in charge.

PULP AND PAPER.—H. E. SURFACE, in charge; Sidney D. Wells, G. C. McNaughton, Charles S. Gwinn, Sidney E. Lunak, Clinton K. Texter.

TIMBER PHYSICS.—H. D. TIEMANN, in charge; Eloise Gerry, N. de W. Betts, M. E. Diemer, James E. Imrie, A. Koehler.

TIMBER TESTS.—JOHN A. NEWLIN, in charge; A. K. Armstrong, Thomas R. C. Wilson, Lorraine J. Markwardt.

WOOD PRESERVATION.—CLYDE H. TEESDALE, in charge; H. M. Mason, jr., James D. MacLean, Robt. E. Prince.

PATHOLOGY (in cooperation with the Bureau of Plant Industry).—C. J. HUMPHREY, in charge; Ruth E. Flemming.

INDUSTRIAL INVESTIGATIONS.—O. T. SWAN, in charge, Washington, D. C. Wood Consumption Studies, R. E. Simmons, Clark W. Gould, W. D. Brush, R. K. Helphenstine, jr., Washington, D. C.; Hu Maxwell, Chicago, Ill. Production of Lumber and Forest Products (in cooperation with the Bureau of Statistics, the Bureau of the Census, and lumber manufacturers' associations), A. H. Pierson, Washington, D. C.; A. B. Strough, Albany, N. Y. Blighted Chestnut Utilization Studies, Jesse C. Nellis, Washington, D. C. Veneer Investigations, S. L. Wolfe, Washington, D. C. Slack-cooperage Investigations, O. T. Swan, Washington, D. C. Tight-cooperage Investigations (Dist. 7), John T. Harris, Heber Springs, Ark. Departmental Cooperation in Revision of Government Specifications and Inspection, R. E. Simmons, Washington, D. C.

ACQUISITION OF LANDS UNDER THE WEEKS LAW.

WM. L. HALL, assistant forester, in charge, Washington, D. C.

LUMBERMAN'S EXAMINATIONS.—C. D. Cushing, E. D. Fletcher, and George E. Marshall, Washington, D. C.

EXAMINATIONS OF LANDS.—W. W. ASHE, forest inspector, in charge; R. C. Hall, forest examiner, Washington, D. C. White Mountain Area, J. S. Benedict, in charge, Gorham, N. H., D. W. Martin, forest examiner; Massanutten, Potomac, and Youghiogheny areas, E. D. Clark, forest examiner, in charge, Woodstock, Va.; Shenandoah Area, S. H. Marsh, forest examiner, in charge, Harrisonburg, Va.; Natural Bridge Area, J. H. Fahrenbach, forest examiner, in charge, Natural Bridge, Va., E. L. Lindsey, J. S. Kaplan, and L. H. Steffens, forest assistants; Monongahela Area, W. A. Hopson, forest examiner, in charge, Elkins, W. Va.; White Top Area, R. P. Holdsworth, forest assistant, in charge, Abingdon, Va., J. H. Keyes, forest assistant; Unaka Area, E. P. Bushnell, forest examiner, in charge, Johnson City, Tenn.; Mount Mitchell Area, L. L. Bishop, forest examiner, in charge, Marion, N. C., R. J. Noyes and H. S. Davis, forest assistants; Nantahala Area, R. F. Hemingway, forest examiner, in charge, Andrews, N. C., and E. M. Brunner, W. E. Barbour, forest assistants; Smoky Mountain Area, V. Rhoades, forest

examiner, in charge, Townsend, Tenn., and W. J. Damtoft, forest assistant; Pisgah Area, J. J. Fritz, forest examiner, in charge, Highlands, N. C.; Savannah Area, R. W. Shields, forest examiner, in charge, Clayton, Ga., H. G. Spahr, forest assistant; Georgia Area, E. V. Clark, forest examiner, in charge, Blue Ridge, Ga.; Cherokee Area, H. L. Johnson, forest examiner, in charge, Etowah, Tenn., H. L. Russell and S. H. Thompson, forest examiners, and H. M. Sears, forest assistant; Alabama Area, C. E. Beaumont, forest examiner, Haleyville, Ala.

SURVEY OF LANDS.—RUDOLPH DIEFFENBACH, forest examiner, in charge; Robert G. Merritt, forest examiner, Arthur E. Hoxie, examiner of surveys, Washington, D. C.; Potomac Area, A. M. Ockerblad, Alfred P. Hamilton, examiners of surveys, and C. E. Benedum, transitman in charge, Woodstock, Va.; Massanutten Area, E. F. Benedum and Edward R. Conrad, examiners of surveys, Woodstock, Va.; Mount Mitchell Area, Dave M. Gibson, examiner of surveys, Marion, N. C.; Nantahala Area, James Denman, examiner of surveys, Andrews, N. C.; Georgia Area, Thomas A. Cox, jr., examiner of surveys, Blue Ridge, Ga.; Unaka Area, Robert E. Witt, examiner of surveys, Etowah, Tenn.; Savannah Area, Frederick A. Gardner, Leon C. Marshall, Samuel L. Chiles, William N. Sloan, and Harold G. Wood, examiners of surveys, Clayton, Ga.; Monongahela Area, Roy L. McGuire, examiner of surveys, Elkins, W. Va.; Shenandoah Area, E. L. Merrill, examiner of surveys, Harrisonburg, Va.; Natural Bridge Area, C. F. Muzzey, examiner of surveys, Natural Bridge, Va.

ADMINISTRATION OF ACQUIRED LANDS.—K. W. WOODWARD, forest inspector, in charge, Washington, D. C.

LAW.—Office of the Solicitor (Forest Service branch). A. S. LANIER, assistant to the solicitor, Richmond, Va.; Record examiners, M. B. Stickley, Marion, N. C.; Julius Fletcher, Franklin, N. C.; George E. Taylor, Bristol, Tenn.; Cameron F. McRae, Clayton, Ga.; Alfred S. Grigg, Jonesboro, Tenn.; Clarence E. Miles, Woodsville, N. H.; Chas. E. Jones, Walhalla, S. C.; Frederick W. Goshorn, Moorefield, W. Va.

DISTRICT 1.

Montana, northeastern Washington, northern Idaho, northwestern South Dakota, and southwestern North Dakota. Office, Federal Building, Missoula, Mont.

F. A. SILCOX, district forester; E. W. KRAMER, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). D. F. McGOWAN, assistant to the solicitor, in charge.

ACCOUNTS.—JOHN A. URBANOWICZ, district fiscal agent.

OPERATION.—J. F. PRESTON, assistant district forester; R. B. ADAMS, superintendent of telephone construction.

MAINTENANCE.—GARDNER I. PORTER.

SILVICULTURE.—D. T. MASON, assistant district forester; DORR SKEELS and H. F. ELLARD, logging engineers.

TIMBER SALES.—DONALD BRUCE.

PLANTING.—H. H. FARQUHAR.

S. S. J. MALVEN, insect control.

JAMES R. WEIR, consulting pathologist, Missoula, Mont.

GRAZING.—C. H. ADAMS, assistant district forester.

STUDIES.—CHAS. E. FLEMING, grazing examiner.

LANDS.—R. H. RUTLEDGE, assistant district forester; JOHN D. JONES, assistant.

CLAIMS.—P. J. O'BRIEN.

PRODUCTS.—P. R. HICKS.

EXPERIMENT STATION.

Priest River, Kaniksu National Forest.—DONALD R. BREWSTER, in charge, Priest River, Idaho.

NATIONAL FORESTS.

IDAHO.

Clearwater.—CHARLES A. FISHER, forest supervisor, Orofino (WU–Am); Roscoe G. Willson, deputy forest supervisor.

Coeur d'Alene.—MEYER H. WOLFF, acting forest supervisor, Coeur d'Alene (WU–Am); Fred R. Mason, deputy forest supervisor; W. W. Morris and F. I. Rockwell, forest examiners.

Kaniksu.—See Washington.

Nezperce.—GEORGE V. RING, forest supervisor, Grangeville (WU–Am); J. Arthur Brown, deputy forest supervisor.

Pend Oreille.—J. A. FITZWATER, forest supervisor, Sandpoint (WU–Am, N, W); R. Trevor Ferguson, deputy forest supervisor.

Selway.—CHARLES F. HOWELL, acting forest supervisor, Kooskia (WU–N).

St. Joe.—EDWARD A. HOLCOMB, acting forest supervisor, St. Maries (Continental–WF); Wilford B. Willey and Richard C. Eggleston, forest examiners; C. H. Gregory, lumberman.

MONTANA.

Absaroka.—JOSEPH D. WARNER, forest supervisor, Livingston (WU–Am, N).

Beartooth.—GLEN A. SMITH, forest supervisor, Billings (WU–Am, N); Arthur H. Abbott, deputy forest supervisor.

Beaverhead.—C. K. WYMAN, forest supervisor, Dillon (WU–Am); John E. David, deputy forest supervisor.

Bitterroot.—W. W. WHITE, forest supervisor, Missoula (WU–Am, N); Herbert F. Lindsay, forest assistant.

Blackfeet.—R. P. MCLAUGHLIN, forest supervisor, Kalispell (WU–Am, GN); Charles E. Baker, forest assistant.

Cabinet.—CLAUDE W. GRIFFIN, forest supervisor, Thompson Falls (WU–Am, N); Carl M. Stevens, forest assistant.

Custer.—GEORGE E. MARTIN, forest supervisor, Miles City (WU–Am, N).

Deerlodge.—LEWIS C. STOCKDALE, forest supervisor, Anaconda (P–Am, N); C. N. Whitney, C. R. Clark, and J. C. Whitham, forest examiners.

Flathead.—FRANK A. FENN, acting forest supervisor, Kalispell (WU–Am, GN); John H. Clack, deputy forest supervisor.

Gallatin.—D. T. CONKLING, forest supervisor, Bozeman (WU–Am, N); Howard E. West, forest assistant.

Helena.—J. B. SEELY, forest supervisor, Helena (WU–Am, N); Waldo D. Barlow, forest assistant.

Jefferson.—SCOTT LEAVITT, forest supervisor, Great Falls (WU–Am, N); Wellman Holbrook, deputy forest supervisor; Adrian C. Adams, forest assistant.

Kootenai.—WILLIAM A. RAYMOND, acting forest supervisor, Libby (WU–Am, GN); William C. Latane, deputy forest supervisor; Webster H. Ransom, John C. Ketridge, and Justin K. Dwinelle, forest examiners.

Lewis and Clark.—THOMAS C. SPAULDING, forest supervisor, Chouteau (WU via Collins–Am, GN via Collins).

Lolo.—ELERS KOCH, forest supervisor, Missoula (WU, P–Am, N); John E. Keach, forest examiner; William W. Bennett, forest assistant.

Madison.—B. W. CLARK, acting forest supervisor, Sheridan (WU–Am, N); Ralph E. Bodley and E. F. Jones, forest assistants.

Missoula.—RUTLEDGE PARKER, forest supervisor, Missoula (WU, P–Am, N); Fay G. Clark, forest assistant.

Sioux.—See South Dakota.

NORTH DAKOTA.

Dakota.—C. A. BALLINGER, forest supervisor, Camp Crook, S. Dak. (WU via Bellefourche–Am via Bellefourche).

SOUTH DAKOTA.

Sioux.—C. A. BALLINGER, forest supervisor, Camp Crook (WU via Bellefourche–Am via Bellefourche).

WASHINGTON.

Kaniksu.—M. N. STICKNEY, forest supervisor, Newport (WU–Am, GN); J. F. Forsythe, deputy forest supervisor.

DISTRICT 2.

Colorado, Wyoming, South Dakota, Nebraska, western Kansas, northern Michigan, and northern Minnesota. Office, Majestic Building, Denver, Colo.

SMITH RILEY, district forester; E. LEONARD LUNDGREN, hydroelectrical engineer.

LAW.—Office of the Solicitor (Forest Service branch). GEORGE E. TROWBRIDGE, assistant to the solicitor, in charge.

ACCOUNTS.—H. I. LOVING, district fiscal agent.

OPERATION.—FRED W. MORRELL, assistant district forester.

MAINTENANCE.—F. H. CARROLL.

SILVICULTURE.—C. M. GRANGER, assistant district forester; J. H. POTTS, forest examiner.

PLANTING.—SEWARD D. SMITH.

FOREST INVESTIGATIONS.—C. G. BATES.

CARL HARTLEY, consulting pathologist, Washington, D. C.

GRAZING.—J. W. NELSON, assistant district forester.

STUDIES.—LYNN H. DOUGLAS, grazing examiner.

LANDS.—C. J. STAHL, assistant district forester; THOS. M. MOORMAN, assistant.

EXPERIMENT STATIONS.

Fremont, Pike National Forest.—F. B. NOTESTEIN, Manitou, Colo.

Wagon Wheel Gap, Rio Grande National Forest.—PETER KEPLINGER, Wagon Wheel Gap, Colo., and H. C. Jones, of the Weather Bureau.

NATIONAL FORESTS.

COLORADO.

Arapaho.—G. P. BARD, forest supervisor, Fraser (WU–Ad); Alva A. Simpson, deputy forest supervisor; Arthur T. Upson, forest examiner; Bruno R. Kudlich.

Battlement.—JOHN W. LOWELL, JR., forest supervisor, Colbran (WU–WF, G); George Z. Mason, forest examiner.

Cochetopa.—EUGENE WILLIAMS, forest supervisor, Saguache (WU–G); Charles P. Bliss, forest examiner.

Colorado.—H. N. WHEELER, forest supervisor, Fort Collins (WU–WF).

Durango.—ERNEST W. SHAW, forest supervisor, Durango (WU–G); R. S. Wheeler, forest examiner.

Gunnison.—WILLIAM R. KREUTZER, forest supervisor, Gunnison (WU–WF, G); Harold L. Borden, forest assistant.

Hayden.—See Wyoming.

Holy Cross.—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU–WF, G); George R. Morrison, forest examiner.

La Sal.—See Utah, District 4.

Leadville.—R. E. CLARK, forest supervisor, Leadville (WU, P–WF, G); J. E. Martin, forest examiner.

Montezuma.—RESS PHILLIPS, forest supervisor, Mancos (WU–G); Gordon Parker, forest examiner.

Pike.—THEO. SHOEMAKER, forest supervisor, Denver (WU, P–Ad, Am, G, US, WF); W. I. Hutchinson, forest examiner; V. A. Beede, Everard S. Keithley, forest assistants; Monument Nursery, W. H. Schrader, forest planting assistant, Monument; Richard T. Guthrie, forest assistant.

Rio Grande.—A. L. SWEITZER, forest supervisor, Monte Vista (WU–G); Walter F. Bowers, deputy forest supervisor; Jay Higgins, forest examiner.

Routt.—J. H. RATLIFF, forest supervisor, Steamboat Springs (WU–Ad); Ray Peck, deputy forest supervisor; P. J. Paxton, forest examiner.

San Isabel.—J. N. LANGWORTHY, forest supervisor, Westcliffe (WU–G); Albin G. Hamel, forest examiner.

San Juan.—H. EARL FRENCH, forest supervisor, Pagosa Springs (WU–G); A. F. C. Hoffman, forest examiner.

Sopris.—JOHN MCLAREN, forest supervisor, Aspen (WU–WF, G); W. G. Baxter, forest examiner.

Uncompahgre.—HOWARD S. BUSHNELL, forest supervisor, Delta (WU–G); J. H. Ramskill, forest examiner.

White River.—JAMES A. BLAIR, forest supervisor, Meeker (WU–WF, G); Crosby A. Hoar, forest examiner.

KANSAS.

Kansas.—B. R. H. D'ALLEMAND, forest supervisor, Garden City (WU, P–WF); Garden City Nursery.

MICHIGAN.

Marquette. **Michigan.**—W. B. PIPER, forest supervisor, East Tawas (WU–Am).

MINNESOTA.

Minnesota.—G. E. MARSHALL, forest supervisor, Cass Lake (WU–Am, GN); Howard H. Richmond, forest assistant.

Superior.—LESLIE BROWNELL, forest supervisor, Ely (WU–GN); Victor C. Follenius, Philip A. Guibord, forest assistants.

NEBRASKA.

Nebraska.—Fred R. Johnson, forest examiner, Halsey (WU–Ad); Halsey Nursery, Theodore Krueger, forest assistant.

SOUTH DAKOTA.

Black Hills.—PAUL D. KELLETER, forest supervisor, Deadwood (WU–Ad, Am); William Wiehe, deputy forest supervisor; Percy T. Smith, Huber C. Hilton, Myron W. Thompson, forest examiners; M. J. Sweeney, Roscoe B. Weaver, forest assistants.

Harney.—R. P. IMES, forest supervisor, Custer (WU–Ad); Richard A. Phillips, forest assistant.

WYOMING.

Bighorn.—E. N. KAVANAGH, forest supervisor, Sheridan (WU–Ad); Andrew G. Stockwell, deputy forest supervisor; Earl S. Peirce, forest examiner.

Bonneville.—L. E. COOPER, forest supervisor, Dubois (WU–Am); Clarence E. Taylor, forest assistant.

Bridger.—H. C. HALL, forest supervisor, Pinedale (WU–Am).

Hayden.—JAMES BLACKHALL, forest supervisor, Encampment (WU, P–Am); Howard R. Flint, forest assistant.

Medicine Bow.—GEO. A. DUTHIE, forest supervisor, Laramie (WU, P–Am); D. S. Jeffers, deputy forest supervisor.

Shoshone.—R. W. ALLEN, forest supervisor, Cody (WU–Ad); Fred B. Agee, deputy forest supervisor.

Sundance.—LOUIS KNOWLES, forest supervisor, Sundance (WU–Ad, Am).

Washakie.—C. G. POOLE, forest supervisor, Lander (WU–Am).

DISTRICT 3.

Arizona, New Mexico, and Oklahoma. Office, Luna-Otero Building, Albuquerque, N. Mex.

A. C. RINGLAND, district forester; E. LEONARD LUNDGREN, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). J. O. SETH, assistant to the solicitor, in charge.

ACCOUNTS.—ALBERT MORRIS, district fiscal agent.

OPERATION.—A. O. WAHA, assistant district forester; A. S. PECK, assistant district forester, detail Washington office; J. F. MULLEN, forest examiner, in charge improvement and protection.

MAINTENANCE.—H. B. HAMMOND.

SILVICULTURE.—T. S. WOOLSEY, JR., assistant district forester; JOSEPH C. KIRCHER, forest examiner; ATHOL A. WYNNE, lumberman, and QUINCY RANDLES, forest examiner, timber sale inspection and check-scaling; P. P. PITCHLYNN, in charge reconnoissance.

GRAZING.—JOHN KERR, assistant district forester.

STUDIES.—R. R. HILL, grazing examiner; ARTHUR D. READ, forest examiner.

LANDS.—FRANK C. W. POOLER, assistant district forester; **M. M.** CHENEY, forest examiner; FREDERIC WINN, in charge of land classification. Entry survey: W. H. FINIGAN, surveyor, Tonto; W. G. TURLEY, surveyor, Crook.

EXPERIMENT STATION.

Fort Valley, Coconino National Forest.—G. A. PEARSON, Flagstaff, Ariz.; Clarence F. Korstian, forest assistant.

NATIONAL FORESTS.

ARIZONA.

Apache.—JOHN D. GUTHRIE, forest supervisor, Springerville (WU, P–WF); Clifford W. McKibbin, forest examiner; W. L. Schofield, forest assistant. Extension reconnaissance: Otto F. Swenson, forest examiner in charge; Earl W. Loveridge, forest assistant; Ward Shepard, forest assistant.

Chiricahua.—A. H. ZACHAU, forest supervisor, Portal, via Rodeo, N. Mex. (WU–WF).

Coconino.—WILLARD M. DRAKE, forest supervisor, Flagstaff (WU, P–WF); Thomas E. McCullough, Gordon T. Backus, and Herman Krauch, forest examiners; Murrell W. Talbot, forest assistant.

Coronado.—ROBERT J. SELKIRK, forest supervisor, Tucson (WU–WF).

Crook.—T. T. SWIFT, forest supervisor, Safford (WU–WF); Marinus Westveld, forest assistant.

Prescott.—C. H. HINDERER, forest supervisor, Prescott (WU–WF); J. C. McNelty, deputy forest supervisor; Edward P. Ancona, forest assistant.

Sitgreaves.—CHARLES H. JENNINGS, forest supervisor, Snowflake (WU, P–WF).

Tonto.—C. C. HALL, forest supervisor, Roosevelt (WU–WF); Reginald B. Forbes, forest assistant.

Tusayan.—HAROLD GREENE, forest supervisor, Williams (WU, P–WF); Robert L. Deering, deputy forest supervisor; George W. Kimball, forest assistant.

Zuni.—See New Mexico.

NEW MEXICO.

Alamo.—R. F. BALTHIS, forest supervisor, Alamogordo (WU–WF).

Carson.—RAYMOND E. MARSH, acting forest supervisor, Tres Piedras (WU–G). Aldo Leopold, forest supervisor (on leave).

Chiricahua.—See Arizona.

Datil.—W. H. GODDARD, forest supervisor, Magdalena (WU, P–WF); H. Basil Wales, forest examiner.

Gila.—DON P. JOHNSTON, forest supervisor, Silver City (WU, P–WF); Ausburn H. Douglas, deputy forest supervisor; N. Curtis Case, forest examiner; Fort Bayard Nursery, H. C. Turner, forest planting assistant.

Jemez.—FRANK E. ANDREWS, forest supervisor, Santa Fe (WU, P–G).
Lincoln.—J. A. KINNEY, forest supervisor, Capitan (WU–WF).
Manzano.—HUGH G. CALKINS, forest supervisor, Albuquerque (WU, P–WF).
Pecos.—THOMAS R. STEWART, forest supervisor, Santa Fe (WU, P–WF); Ira T. Yarnall, forest assistant; Las Gallinas Nursery, H. D. Burrall, forest examiner; Thomas P. Reid, forest assistant.
Zuni.—HUGH G. CALKINS, forest supervisor, Albuquerque (WU, P–WF).

OKLAHOMA.

Wichita.—FRANK RUSH, game warden, in charge, Cache (WU–WF).

DISTRICT 4.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Forest Service Building, Ogden, Utah.

E. A. SHERMAN, district forester; J. P. MARTIN, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). J. F. LAWSON, assistant to the solicitor, in charge.

ACCOUNTS.—Q. R. CRAFT, district fiscal agent.

OPERATION.—A. C. MCCAIN, assistant district forester.

MAINTENANCE.—FELIX T. MOORE.

SILVICULTURE.—O. M. BUTLER, assistant district forester; D. F. SEERY, logging engineer; D. M. LANG, S. C. SCRIBNER, scalers.

PLANTING.—J. M. FETHEROLF.

COMPILATION RECONNAISSANCE DATA: Wyoming National Forest.—R. A. STRETCH, forest supervisor; L. F. WATTS, forest assistant.

GRAZING.—HOMER E. FENN, assistant district forester.

STUDIES.—ALFRED E. ALDOUS, grazing examiner.

LANDS.—T. C. HOYT, assistant district forester; R. E. GERY, assistant; B. L. Wheeler, mineral examiner.

SUPPLY DEPOT.—A. M. SMITH, property clerk.

PROPERTY AUDIT.—J. G. FALCK, property auditor.

EXPERIMENT STATION.

Utah, Manti National Forest.—ARTHUR W. SAMPSON, in charge; E. R. Hodson, Ephraim, Utah.

NATIONAL FORESTS.

ARIZONA.

Dixie.—See Utah.
Kaibab.—JAMES L. PELTON, forest supervisor, Kanab, Utah (WU–WF).

IDAHO.

Boise.—E. GRANDJEAN, forest supervisor, Boise (WU–Am); M. S. Benedict, deputy forest supervisor; Dana Parkinson, forest examiner.
Cache.—See Utah.
Caribou.—G. G. BENTZ, forest supervisor, Montpelier (WU–Am); L. W. Hastings, deputy forest supervisor; J. H. Hull, forest assistant.
Challis.—DAVID LAING, forest supervisor, Challis (WU–Am).
Idaho.—HERBERT GRAFF, forest supervisor, McCall (WU–P).
Lemhi.—C. I. HUDDLE, forest supervisor, Mackay; E. C. Sanford, forest assistant (WU–Am).
Minidoka.—WILLIAM MCCOY, forest supervisor, Oakley; C. D. Simpson, forest assistant (WU–Am).
Palisade.—FRANK J. RYDER, forest supervisor, St. Anthony (WU–Am); C. F. Evans, forest assistant.
Payette.—GUY B. MAINS, forest supervisor, Emmett (WU–Am); Lawrence J. Phelan, deputy forest supervisor; W. N. Sparhawk, forest examiner; W. A. Smith, forest assistant.
Pocatello.—J. F. BRUINS, forest supervisor, Pocatello (WU–Am); Pocatello Nursery, Arthur P. Say, forest ranger.
Salmon.—JOHN A. PEARSON, forest supervisor, Salmon (WU–Am); S. S. Stewart, deputy forest supervisor; Herman Work, forest examiner.
Sawtooth.—C. N. WOODS, forest supervisor, Hailey (WU–Am); Herbert G. McPheters and Samuel B. Locke, deputy forest supervisors.
Targhee.—CHESTER B. MORSE, forest supervisor, St. Anthony (WU–Am); Charles A. Beam, deputy forest supervisor; J. W. Stokes, forest examiner.
Weiser.—J. B. LAFFERTY, forest supervisor, Weiser (WU–Am); W. M. Campbell, deputy forest supervisor; A. E. Oman, forest examiner.

NEVADA.

Humboldt.—S. B. ARTHUR, forest supervisor, Gold Creek (WU–WF).
Moapa.—THOMAS J. COLLINS, forest supervisor, Austin (WU–Am).
Nevada.—GEO. C. THOMPSON, forest supervisor, Ely (WU–WF).
Ruby.—JAMES M. RYAN, forest supervisor, Elko (WU–WF).
Santa Rosa.—W. W. BLAKESLEE, forest supervisor, Paradise.
Toiyabe.—THOMAS J. COLLINS, forest supervisor, Austin (WU, P–WF); R. D. Garver, forest assistant.

UTAH.

Ashley.—W. M. ANDERSON, forest supervisor, Vernal (WU–WF); Lester E. Hitchcock, forest examiner.
Cache.—CLINTON G. SMITH, forest supervisor, Logan (WU–Am); E. C. Shepard, forest examiner.
Dixie.—JOHN RAPHAEL, forest supervisor, St. George (WU–WF).

Fillmore.—ERNEST WINKLER, forest supervisor, Richfield (WU–WF).

Fishlake.—CARL B. ARENTSON, forest supervisor, Salina (WU–WF); D. A. Arivee, forest assistant.

La Sal.—J. W. HUMPHREY, forest supervisor, Moab (WU–WF).

Manti.—A. W. JENSEN, forest supervisor, Ephraim (WU–WF); B. E. Mattsson, deputy forest supervisor; J. C. Roak and E. S. Baker, forest assistants.

Minidoka.—See Idaho.

Pocatello.—See Idaho.

Powell.—GEO. H. BARNEY, forest supervisor, Escalante (WU–WF).

Sevier.—O. C. SNOW, forest supervisor, Panguitch (WU–WF); A. G. Hauge, forest assistant.

Uinta.—W. I. PACK, forest supervisor, Provo (WU–WF); J. Carl Allred, deputy forest supervisor; Nils B. Eckbo, forest examiner.

Wasatch.—E. H. CLARKE, forest supervisor; Lee A. Harris, deputy forest supervisor, Salt Lake City (WU, P–Am, WF); S. E. Bower, forest assistant; Cottonwood Nursery, N. J. Fetherolf, forest planting assistant; Beaver Creek Nursery, Asa L. Brower, forest examiner in charge.

WYOMING.

Ashley.—See Utah.

Caribou.—See Idaho.

Palisade—See Idaho.

Targhee.—See Idaho.

Teton.—R. E. MILLER, forest supervisor, Jackson (WU–Am); H. B. Maris, forest examiner.

Wyoming.—JAMES E. JEWELL, forest supervisor, Afton (WU–Am); John E. Ingram, deputy forest supervisor.

DISTRICT 5.

California and southwestern Nevada. Office, First National Bank Building, San Francisco, Cal.

COERT DUBOIS, district forester; F. H. FOWLER, district engineer; J. L. MATHIAS, assistant to district engineer; CLARENCE WILEY, inspector of records.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge; MAURY CURTIS, assistant to the solicitor.

ACCOUNTS.—A. W. SMITH, district fiscal agent.

OPERATION.—ROY HEADLEY, assistant district forester; WM. C. HODGE, JR., inspector of fire-protection plans; FREDERICK H. HAFLEY, telephone expert.

MAINTENANCE.—T. M. KENNEDY.

SILVICULTURE.—T. D. WOODBURY, assistant district forester; SWIFT BERRY, forest examiner; J. C. ELLIOTT, lumberman; H. N. ORMSBEE, logging engineer.

LOUIS MARGOLIN, forest examiner, reconnaissance.

FOREST INVESTIGATIONS.—L. T. LARSEN, forest examiner.

RALPH HOPPING, forest examiner, insect control.

E. P. MEINECKE, consulting pathologist; J. S. BOYCE, scientific assistant, San Francisco, Cal.

GRAZING.—JOHN H. HATTON, assistant district forester.

LANDS.—L. A. BARRETT, assistant district forester; CHAS. S. BROTHERS, assistant; W. H. FRIEDHOFF, mineral examiner; land classification—S. N. STONER, forest examiner, in charge of district; J. O. MORROW, deputy forest supervisor; P. L. DAY, forest examiner in charge of field parties.

PRODUCTS.—C. STOWELL SMITH, assistant district forester, in charge; C. A. KUPFER, forest examiner.

EXPERIMENT STATIONS.

Feather River, Plumas National Forest.—J. A. MITCHELL, forest examiner in charge, Quincy, Cal.

Converse, Angeles National Forest.—EDWARD N. MUNNS, forest assistant, in charge, Seven Oaks, Redlands, Cal.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P–WF).

California.—D. P. GODWIN, forest supervisor, Willows (P–WF); B. H. Mace, deputy forest supervisor; S. W. Strothman, forest examiner.

Cleveland.—S. W. WYNNE, forest supervisor, San Diego (WU, P–WF).

Eldorado.—EVAN W. KELLEY, forest supervisor, Placerville (WU–WF); George W. Lyons, forest examiner.

Inyo.—A. H. HOGUE, forest supervisor, Bishop (WU–WF).

Kern.—F. P. CUNNINGHAM, acting forest supervisor, Bakersfield (WU–WF).

Klamath.—W. B. RIDER, forest supervisor, Yreka (WU–WF); J. R. Hall, deputy forest supervisor; Douglas K. Noyes, forest examiner.

Lassen.—W. J. RUSHING, forest supervisor, Red Bluff (P–WF); Shirley W. Allen, deputy forest supervisor; R. H. Boerker, forest examiner; and Patrick Kennedy, lumberman, reconnaissance.

Modoc.—C. E. RACHFORD, forest supervisor; Alturas (P–WF); Vernon L. Bonner, deputy forest supervisor; Belknap C. Goldsmith, forest examiner.

Mono.—See Nevada.

Monterey.—N. H. SLOANE, forest supervisor, Arbolado (WU, Monterey–WF, Monterey).

Plumas.—D. N. ROGERS, forest supervisor, Quincy (WU, Keddie, Cal.–G); W. G. Durbin, deputy forest supervisor; George R. Orr, forest examiner.

Santa Barbara.—W. M. SLOSSON, forest supervisor, Santa Barbara (P–WF); H. G. Merrill, deputy forest supervisor; W. M. Moore, forest examiner.

Sequoia.—ALLAN B. PATTERSON, forest supervisor, Hot Springs, Tulare County (WU via Ducor–WF).

Shasta.—R. F. HAMMATT, forest supervisor, Sisson (P–WF); M. R. Tillotson, deputy forest supervisor; Stewart B. Show and Edward I. Kotok, forest examiners; Pilgrim Creek Nursery, Fred W. Graham, assistant forest ranger, in charge, McCloud.

Sierra.—P. G. REDINGTON, forest supervisor, Northfork (WU via Friant–WF, Friant); M. A. Benedict, deputy forest supervisor; Ernest G. Dudley and Cary Hill, forest examiners; Dwight C. Birch, forest assistant.

Stanislaus.—R. W. AYRES, forest supervisor, Sonora (WU–WF); T. C. West, deputy forest supervisor; J. V. Wulff, forest examiner.

Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU–WF); W. H. Gallaher, K. Mills, and Reese W. Taylor, forest examiners.

Trinity.—W. A. HUESTIS, forest supervisor, Weaverville (WU–WF); J. D. Coffman, deputy forest supervisor; Ernst V. Jotter and O. M. Evans, forest examiners.

NEVADA.

Eldorado.—See California.

Inyo.—See California.

Mono.—WM. M. MAULE, forest supervisor, Gardnerville (WU–WF).

Tahoe.—See California.

DISTRICT 6.

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

GEO. H. CECIL, district forester; PHILIP H. DATER, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge; EARL C. ARNOLD, assistant to the solicitor.

ACCOUNTS.—A. H. COUSINS, district fiscal agent.

OPERATION.—C. H. FLORY, assistant district forester.

MAINTENANCE.—SHIRLEY BUCK.

SILVICULTURE.—F. E. AMES, assistant district forester; C. S. JUDD, assistant district forester; W. H. GIBBONS, investigation of log-

ging costs; W. T. ANDREWS and C. H. WOODCOCK, logging engineers; EDWIN C. ERICKSON and L. A. NELSON, scalers.

PLANTING.—J. F. KÜMMEL and C. P. WILLIS. forest examiners.

FOREST INVESTIGATIONS.—T. T. MUNGER, forest examiner.

J. F. PERNOT, forest examiner, insect control.

GRAZING.—T. P. MACKENZIE, assistant district forester.

LANDS.—C. J. BUCK, assistant district forester; land classification, J. ROY HARVEY, forest examiner.

PRODUCTS.—H. B. OAKLEAF, in charge; C. W. Dunning, Portland; O. P. M. Goss, C. W. Zimmerman, Cornelius Barry, Seattle, Wash.

EXPERIMENT STATION.

Wind River, Columbia National Forest.—JULIUS V. HOFMANN, forest assistant, in charge, Portland, Oreg.

NATIONAL FORESTS.

ALASKA.

Chugach.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU–AP. Am); Thomas M. Hunt, deputy forest supervisor; Bruce Hoffman, forest examiner.

Tongass.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU–AP, Am); S. S. Swenning, deputy forest supervisor.

OREGON.

Cascade.—C. R. SEITZ, forest supervisor, Eugene (WU, P–WF).

Crater.—M. L. ERICKSON, forest supervisor, Medford (WU, P–WF); E. H. MacDaniels, deputy forest supervisor; H. D. Foster, William E. White, forest examiners.

Deschutes.—MELVIN L. MERRITT, forest supervisor, Bend (WU, PT & T–GN); W. J. Sproat, forest assistant.

Fremont.—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev–P, WF); Norman G. Jacobson, forest examiner.

Klamath.—See California.

Malheur.—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker–Am, WF via Baker); Carl B. Neal, forest assistant.

Minam.—EPHRAIM BARNES, acting forest supervisor, Baker (WU–Am).

Ochoco.—HOMER ROSS, forest supervisor, Prineville (WU, PT & T–Am); Allen Hodgson, deputy forest supervisor; F. S. Fuller, forest assistant.

Oregon.—T. H. SHERRARD, forest supervisor, Portland (WU, P–Am, WF, N); Ralph S. Shelley, deputy forest supervisor; W. B. Osborne, forest examiner.

Paulina.—Apportioned for administrative purposes to the Deschutes, the Fremont, and the Crater.

Santiam.—F. H. BRUNDAGE, forest supervisor, Albany (WU, P–WF); A. R. Wilcox, forest examiner.

Siskiyou.—N. F. MACDUFF, forest supervisor, Grants Pass (WU, P–WF); D. B. Reynolds, deputy forest supervisor; H. Haefner, forest examiner.

Siuslaw.—H. B. RANKIN, forest supervisor, Eugene (WU, P–WF); S. C. Beach, deputy forest supervisor; H. M. Johnson, forest examiner.

Umatilla.—W. W. CRYDER, forest supervisor, Heppner (WU, P–AM).

Umpqua.—S. C. BARTRUM, forest supervisor, Roseburg (WU, P–WF); George Bonebrake, deputy forest supervisor; A. F. Kerr, forest examiner; G. Y. Baker, forest assistant.

Wallowa.—H. W. HARRIS, forest supervisor, Wallowa (WU–Am); N. J. Billings, deputy forest supervisor; R. L. Hensel and E. H. Steffen, forest assistants.

Wenaha.—See Washington.

Whitman.—HENRY IRELAND, forest supervisor, Sumpter (WU via Baker-Am, WF via Baker); R. M. Evans, deputy forest supervisor; T. J. Starker, forest assistant.

WASHINGTON.

Chelan.—G. W. MILHAM, forest supervisor, Chelan (PT & T–Am, GN via Wenatchee).

Columbia.—A. E. COHOON, forest supervisor, Portland, Oreg. (WU, P–Am, WF, N); W. W. G. Hastings, deputy forest supervisor; L. Wernoted, forest examiner; C. P. Willis, forest examiner.

Colville.—C. C. REID, forest supervisor, Republic (WU, P–Am, GN); F. W. Cleator, deputy forest supervisor; W. J. Paeth, forest assistant.

Okanogan.—H. M. HALE, forest supervisor, Okanogan (PT & T–Am, GN via Wenatchee); V. V. Harpham, deputy forest supervisor; G. L. Drake and A. W. Hodgman, forest assistants.

Olympic.—R. L. FROMME, forest supervisor, Olympia (WU, P–Am, GN, N); A. A. Parker, deputy forest supervisor; E. J. Hanzlik, forest assistant.

Rainier.—G. F. ALLEN, forest supervisor, Tacoma (WU, P–Am, N); P. T. Harris, deputy forest supervisor; E. J. Fenby, forest examiner.

Snoqualmie.—STANTON G. SMITH, forest supervisor, Seattle (WU, P–N, GN, WF); Lewis A. Treen, jr., deputy forest supervisor; Walter H. Leve and Alexander G. Jackson, forest examiners.

Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P–Am, GN, N).

Wenaha.—J. M. SCHMITZ, forest supervisor, Walla Walla (WU–Am, N); Geo. Bright, forest assistant.

Wenatchee.—A. H. SYLVESTER, forest supervisor, Leavenworth (WU–Am, GN).

DISTRICT 7.

Arkansas and Florida. Office, Atlantic Building, Washington, D. C. H. O. STABLER, acting district forester.

NATIONAL FORESTS.

ARKANSAS.

Arkansas.—S. A. CHAPPELL, forest supervisor, Hot Springs (WU, P–WF, P); D. E. Fitten, deputy forest supervisor; C. J. Heller, forest examiner; Raymond E. Hopson, forest assistant.

Ozark.—FRANCIS KIEFER, forest supervisor, Harrison (WU–WF); W. F. Hill, deputy forest supervisor; R. C. Huey, deputy forest supervisor; L. L. Janes and Robert S. Wallace, forest examiners.

FLORIDA.

Florida.—I. F. ELDREDGE, forest supervisor, Pensacola (WU, P); John W. Spencer, forest examiner.

BUREAU OF ENTOMOLOGY.

L. O. HOWARD, Chief.

BRANCH OF FOREST INSECT INVESTIGATIONS.—A. D. HOPKINS, in charge.

FOREST INSECT FIELD STATIONS.

Northern Rocky Mountain Station, Missoula, Mont., for the States of Montana, Idaho, eastern Oregon, eastern Washington, Wyoming, Nebraska, and South Dakota, north of the 42d parallel of latitude. Josef Brunner, in charge.

Southern Rocky Mountain Station, Colorado Springs, Colo., for the States of New Mexico, Arizona, Colorado, Utah, and Nevada. W. D. Edmonston, in charge.

Pacific Slope Station, Placerville, Cal., for the States of California, western Oregon, and western Washington west of about the 120th meridian. H. E. Burke, in charge.

Pacific Slope Substation, Ashland, Oreg., for the special investigation of insect enemies of forest-tree seeds. J. M. Miller, in charge.

Eastern Station, East Falls Church, Va., for the Eastern States. S. A. Rohwer, in charge

SERVICE CHANGES.

APPOINTED.

EDITOR.—Publication: Edward Burkholder, proof reader; Chester A. Lindstrom, clerk.

SILVICULTURE.—State cooperation: J. A. Viquesney, collaborator.

ACQUISITION.—John W. Fox, Max McCullough, Rodney D. Brown, Vincent L. Ahern, Leonard J. Long, Archibald D. Duffie, James Gore, jr., transitmen; Roy L. McGuire, examiner of surveys.

DISTRICT 1.—Operation: Ada M. Argall, clerk (stenographer and typewriter), Flathead. District office: Milton H. Slifer, draftsman (topographic).

DISTRICT 3.—Operation: Joseph A. Barrett, forest clerk, Jemez.

DISTRICT 4.—Operation: Alfred P. Larson, forest ranger, Santa Rosa; Cyrus R. Hunter, Edward R. Tuttle, Payette, and Joseph R. Tognoni, Santa Rosa, assistant forest rangers; Frank O. Kohler, forest clerk, Nevada.

DISTRICT 5.—Operation: Elizabeth Morrisroe and Rosalie E. Westerfeld, clerks (stenographers and typewriters), district office; Ulrich Graff, topographic draftsman, district office.

DISTRICT 6.—Operation: Willard D. Johnson, topographer, district office; John M. Brown, assistant forest ranger, Chugach; Adolph Nilsson, assistant forest ranger, Deschutes; Mamie Niepold, clerk, Tongass; Stella M. Yarrow, clerk (stenographer and typewriter), Siuslaw. Silviculture: Charles H. Woodcock, logging engineer, district office.

CHANGE IN DESIGNATION.

DISTRICT 1.—Operation: Clarence B. Swim, forest ranger to forest examiner, Pend Oreille.

DISTRICT 2.—E. Leonard Lundgren, district engineer to hydroelectrical engineer, district office.

DISTRICT 6.—Operation: Robie M. Evans, forest examiner to deputy forest supervisor, Whitman; Woodford H. Babbitt, deputy forest supervisor to forest ranger, Tongass.

PROMOTED IN RANK.

DISTRICT 2.—Operation: Robert E. Clark, deputy forest supervisor to forest supervisor, Leadville; Leslie M. Brownell, deputy forest supervisor to forest supervisor, Superior; Hiram K. Wright, assistant forest ranger to forest ranger, Minnesota.

DISTRICT 4.—Operation: Joseph W. Humphrey, deputy forest supervisor, Cache, to forest supervisor, La Sal; Rolland A. Stretch, forest examiner, Wyoming, to forest supervisor, district office; Dr. B. Bailey, forest ranger to deputy forest supervisor, Nevada; assistant forest rangers to forest rangers: Edmund B. S. Spencer, Cache; John A. Ferguson, Caribou: John A. Wood, Challis; and William M. Mace, Wyoming.

DISTRICT 5.—Operation: Sedman W. Wynne, deputy forest supervisor to forest supervisor, Cleveland; Shirley W. Allen, forest examiner to deputy forest supervisor, Lassen; William W. Gray, assistant forest ranger to forest ranger, Santa Barbara; Roy Boothe, assistant forest ranger to forest ranger, Sierra.

DISTRICT 6.—Operation: Edward S. Kerby, assistant forest ranger to forest ranger, Crater; Charles T. Beach, forest ranger to deputy forest supervisor, Siuslaw.

RESIGNED.

LANDS.—Franklin W. Reed, inspector.

LABORATORY.—Alexander W. Beemer, assistant chemist in forest products; E. W. Peters, engineer in wood preservation; Frank Yanker, laboratory aid and engineer.

ACQUISITION.—Carrington Macfarlane, forest examiner.

DISTRICT 1.—Operation: Dwight L. Beatty, deputy forest supervisor, Absaroka; Oral J. Berry, forest ranger, Missoula; Will M. Pratt, assistant forest ranger, Gallatin; James W. Stanton, assistant forest ranger, Helena.

DISTRICT 2.—Operation: Arthur M. Cook, forest supervisor, Arapaho; Della M. Harris, clerk, district office; Sewell S. Tibbetts, forest ranger, Minnesota; assistant forest rangers—Scott Palmer, Battlement; Guy E. Tefft, Durango; James F. Low, Leadville; Jacob J. Ellenberger, Routt; John B. Lansing, Routt; Edward H. Boughton, Shoshone; William L. Bosse, Uncompahgre; Neil Campbell, Durango.

DISTRICT 3.—Operation: Lillian A. Munger, clerk (forest), district office; clerks—Lillian H. Sutherland, Carson; Myron G. Browne, Coronado; John C. Ristine, Arkansas; Frank C. Douglas, Arkansas; Howard M. Moore, clerk (typewriter), Jemez; Thomas B. Longwell, forest ranger, Pecos; assistant forest rangers—Arthur E. Moody, Coronado; W. Eugene Goode, Datil; Clayton M. Howells, Gila. Silviculture: Norman W. Scherer, forest assistant, Fort Valley Experiment Station. Grazing: Elizabeth Roberts, clerk (forest), district office.

DISTRICT 4.—Operation: Daniel S. Pack, forest supervisor, Nebo; William F. Thorne, deputy forest supervisor, Nevada; forest rangers—Angus M. Woodbury, lands (entry surveys), Boise; Leslie L. Hammer, Boise; and Thomas M. Herbert, Fishlake; assistant forest rangers—W. Douglas Hood, Boise; Willard S. Sorenson, Dixie; Wilford Pace, Fishlake; Milton S. Rogerson, Kaibab; Riley Johnson, La Sal; Ulrich C. Pogge, Targhee; and Robert Pack, Uinta; Earl G. Fogelgren, forest clerk, Ashley; Miss Dorothy Nebergall, clerk (stenographer and typewriter), Santa Rosa.

DISTRICT 5.—Winifred E. Wickland, clerk (stenographer and typewriter), district office; assistant forest rangers—James V. Seaman, Angeles; Grant Goodale, Inyo; John J. Fiske, Kern; Leroy A. La Point, Klamath; Adelbert E. Pattan, Plumas; William C. Melone, Shasta;

William H. Thrower, Sierra; and Leonard P. Wygle, Plumas; Carl Stoddard, forest ranger, Santa Barbara; Earl V. Lackey, forest clerk, Shasta; Merritt B. Pratt, deputy forest supervisor, Tahoe.

DISTRICT 6.—John Riis, assistant forest ranger, Deschutes; Fred A. Matz, forest ranger, Deschutes; Charles T. Gardner, clerk, Tongass; Ethel S. Cotter, clerk, Tongass.

DISTRICT 7.—Robert W. Armitage, assistant forest ranger, Arkansas.

DISMISSED.

DISTRICT 4.—Operation: Henry A. Bergh, forest supervisor, La Sal.

With deep regret announcement is made of the death of Irving E. Bitner, forest clerk, Cleveland National Forest, November 26, 1913.

SERVICE NOTES FOR JANUARY.

These notes contain instructions and necessary information to forest officers, and will therefore be carefully read and kept on file for reference.

LAW.

OFFICE OF THE SOLICITOR.

Law Cases in District 1—

United States *v.* Alfred Burns: The defendant, a sheep herder, was prosecuted criminally for trespassing on the Beartooth National Forest with a band of sheep. On November 22 he entered a plea of guilty, and on November 24 he was sentenced to pay a fine of $25 and costs. He was unable to pay the fine and was committed to jail for 30 days.

United States *v.* Chicago, Milwaukee & St. Paul Ry. Co.: This is a suit in equity to enforce specific performance of an agreement to execute a stipulation required by the Secretary as a condition to the approval of the railroad's right of way across the St. Joe National Forest. At the May, 1913, term of the United States District Court, held at Coeur d'Alene, Idaho, a decree was rendered enforcing specific performance and awarding damages to the United States. At the November term of the same court the defendant perfected its appeal and the case is now pending before the Circuit Court of Appeals for the Ninth Circuit, at San Francisco.

Law Cases in District 2—

November 22, 1913, William Mitchell and Joseph Schmidt were arrested by the supervisor of the Harney National Forest for stealing Government property, and upon hearing before the United States commissioner were remanded to jail in default of bail to await the action of the grand jury.

On November 14, 1913, Leslie Hendershot and W. A. Postlethwaite were arrested by the supervisor of the Harney National Forest for stealing Government property, and upon hearing before the United States commissioner were remanded to jail in default of $500 bond to await the action of the grand jury.

United States *v.* Pahasa Mining Co. et al.: The bill filed by the United States in the District Court of South Dakota, seeking to enjoin

the defendants from using the Reder placer location for agricultural purposes without a permit, was dismissed on October 16, 1913, by Judge Elliott.

On October 10, 1913, the grand jury, sitting at Pueblo, returned an indictment against Sacarias Maes for grazing sheep in trespass on the Rio Grande National Forest.

On November 14, 1913, the San Juan Miguel Development Co. paid the sum of $2.104.64 in settlement of a timber trespass on the Uncompahgre National Forest.

J. C. Gilbreath deposited the sum of $101.68 in settlement of a grazing trespass on the Rio Grande National Forest.

United States *v.* Colorado & Southern Railway Co.: Case closed upon payment by defendants, pursuant to consent judgment, of $273.54, covering fire trespasses on Leadville and Gunnison National Forests.

Law Cases in District 3—

On October 21, 1913, George Galvadon pleaded guilty to an information charging him with unlawful grazing of sheep on the Jemez National Forest. He was sentenced to pay a fine of $25 and costs, $23.20.

On November 6, 1913, Telesfor Marquez pleaded guilty to an information charging him with unlawful grazing of sheep on the Carson National Forest. He was sentenced to 30 days in jail. The sentence was, however, suspended, as the defendant had already been in jail for some time.

On December 2, 1913, Jesus Archuleta withdrew his former plea of not guilty and entered a plea of guilty to an information charging him with unlawful grazing of sheep on the Datil National Forest. He was sentenced to pay a fine of $25 and costs, $37.20.

In the grazing trespass case against M. C. De Baca, Manzano National Forest, judgment was entered by consent for $114.40 damages and $13.22 costs. The judgment was satisfied.

On October 6, 1913, an injunction was secured restraining Tobe Lacey from grazing cattle in trespass on the Chiricahua National Forest.

The grazing trespass case against J. F. Henderson, Tonto National Forest, was settled by the payment of $72.30.

In the timber trespass case against McRae and Barret, Alamo National Forest, a judgment by consent was entered on November 20 for $185.95 damages and $85.20 costs. The judgment was satisfied.

Judgment in the timber trespass case against Margarito Romero, Pecos National Forest, for $100 damages and $372.35 costs was satisfied on December 18, 1913.

Law Cases in District 4—

United States *v.* Utah Power & Light Co.: Occupancy trespass, Cache National Forest. The United States Circuit Court of Appeals for the Eighth Circuit, by decision rendered November 14, 1913, reversed the

decision of Judge Marshall, of the District Court of the State of Utah, and remanded this case. The gist of such decision is as follows:

> The result is that whatever rights to burden the public lands may have been recognized or confirmed by section 2339 of the Revised Statutes, those involving generation, manufacture, and distribution of electric power have been withdrawn, modified, and restricted by the subsequent act of May 14, 1896.

While the court held that section 2339 of the Revised Statutes was sufficiently broad to include as manufacturing the production of electric power, they sustained absolutely the contention of the Government that by the act of May 14, 1896, Congress intended and did assume complete control of the acquisition in any manner of all rights of way upon public lands needed for power purposes.

United States *v.* William R. Gibson: Timber trespass, Targhee National Forest. Defendant, who had been indicted at the May term of the district court at Cheyenne, Wyo., was tried on November 20, 1913. The jury returned a verdict of not guilty. The defendant, however, had been in jail since about July 15. In entertaining the motion to dismiss certain counts in the indictment the court held as follows: (1) That the penal provision in the act of June 4, 1897 (30 Stat., 11), is not affected by the express repeal of the original section providing the penalty which is contained in the act of June 4, 1888. The latter act is expressly repealed by the act of March 4, 1909. (2) That the penal code or the act of March 4, 1909, making a complete revision of the penal laws of the United States does not impliedly repeal the penal portion of the act of June 4, 1897.

United States *v.* J. J. Blanchard: Grazing trespass, Pocatello National Forest. Judgment rendered by the October term of the District Court for the Eastern Division of the District of Idaho in the amount of $17.87 actual damages, $50 punitive damages and the costs.

United States *v.* L. S. Smart: Grazing trespass, Wasatch National Forest. Defendant was indicted at the November term of the District Court for the State of Utah; charged with grazing of sheep without permit on lands within the Wasatch National Forest; later entered a plea of guilty and was fined $100, which amount he paid.

United States *v.* R. W. Brown: Grazing trespass, Minidoka National Forest. Defendant made settlement by payment of $8.75 actual damages and costs.

United States *v.* James G. Olsen et al.: Grazing trespass, Manti National Forest. Defendants made settlement by payment of $36 actual damages, $25 punitive damages, and $43.10 costs.

United States *v.* Albert Smith: Grazing trespass, Uinta National Forest. Defendant made settlement by payment of $174.59 actual damages and costs of suit.

United States *v.* J. E. Heywood: Grazing trespass, Sevier National Forest. Defendant settled by payment of $533.40 actual damages, and costs not as yet ascertained.

United States *v.* Henry E. Potter: Grazing trespass, Nebo National Forest. Defendant settled by payment of $12.50 actual damages.

United States *v.* Benarleno Oleachea: Grazing trespass, Pocatello National Forest. Defendant arrested on August 28, taken before United States commissioner at Bancroft, Idaho, and placed under bond in the sum of $150 to appear at the next term of the district court.

Law Cases in District 5—

The case of Pacific Gas & Electric Co. *v.* David F. Houston et al. to restrain Forest officers from interfering with the building of a power conduit over Government land within the Tahoe National Forest is pending in the Northern District of California.

A jury in the Northern District of California acquitted Christy Lawson, a half-breed, of willfully setting fire to timber and underbrush within the Klamath National Forest.

The Wood & Sheldon Lumber Co. made settlement in the sum of $2,494.28 for timber trespass committed during the year 1909 within the Shasta National Forest.

The National Surety Co. remitted the sum of $600 in settlement of the damages caused by the failure of the Davis-Field Lumber Co. to carry out the terms of its timber-sale contract for certain timber on the Shasta National Forest.

The Standard Lumber Co. paid the sum of $1,153.68 in full settlement for a timber trespass on the Stanislaus National Forest.

J. J. Fiack was bound over to the grand jury under a $250 bond for unlawfully grazing sheep from April 1 to August 8, 1913, on the Plumas National Forest.

Do Ohtart and L. Lopeteguy were arraigned in the Federal District Court at Fresno, Cal., and, after pleading not guilty, withdrew the plea, pleaded guilty, and were fined $25 each and costs for the unlawful grazing of sheep on the Kern National Forest.

Law Cases in District 6—

United States *v.* Malcolm Corrigall: Grazing trespass, Whitman National Forest. Case settled on payment of $16.63 actual and $50 punitive damages.

United States *v.* W. P. Allen: Grazing trespass, Malheur National Forest. Case settled on payment of $44.56 actual and $50 punitive damages.

United States *v.* Dr. Eberly Seeley et al.: Fire trespass, Crater National Forest. Trespassers plead guilty and paid a fine of $25.

United States *v.* Sol Duc Hot Springs Co.: Timber trespass, Olympic National Forest. Case closed on payment of $1,551.74 in compromise of $5,640.41.

OPERATION.

Annual Property Return—

The attention of all members of the Service having in their possession nonexpendable articles is called to the instructions regarding the

Annual Property Return on page 87 of the General Administration Manual, as follows:

> Annually, on January 1, a property return will be prepared on Form 330 in duplicate by every member of the Service who is accountable for property on the records of the Property Auditor.

Members are urged to submit the return to the Property Auditor without delay, and, if not already submitted, they are requested to fill out *three* copies of Form 330, property return, instead of two copies as required by the manual.

Parcel Post—

It is found that shipments of official matter of the nature of fourth-class mail matter are being made by express instead of by parcel post. On April 18, 1913, the district foresters were informed regarding an opinion of the Attorney General that it is permissible, under the law, for an officer of the Government to send in the mails, free of postage, under a penalty envelope or label, official matter partaking of the characteristics of fourth-class mail matter, not exceeding 11 pounds in weight.

Members of the service are expected to use the parcel post to the fullest extent possible under the above interpretation of the law.

Form 411—Report of Description of Horses, Mules, and Burros—

Considerable difficulty has been experienced by the property auditor in keeping a record of the correct descriptions of animals purchased, lost, or sold. This form, which is now in press, will accompany all transactions affecting animals. It can be had from the property clerk on requisition.

Record of Land Office Corners—

The Forester has approved a scheme under which all field men are hereafter required to make careful record of each Land Office corner found or for which unsuccessful search is made in the course of the regular field season. This data will be recorded by means of three simple symbols which can be easily memorized, and are placed without loss of time on any suitable map of the forest or ranger district in which the corner is located. Forest officers attached to forests will report to the supervisors, and those officers and field parties under the supervision of the district office will report to the district forester. Procedure is prescribed under which an annual report is made from the Forests on December 15. Parties and individual surveyors report at the completion of the field work by placing symbols on the finished maps or by sending in the symbols on township or forest diagrams. In the district office the material is compared, checked, conflicts noted, adjusted, or eliminated, and the data returned to supervisors and rangers for the information of all surveyors of the Forest Service. It is believed that this work will not require an undue amount of time

and will prove a valuable aid in both the planning and execution of surveying projects of all kinds within the next few years.

GRAZING.

Classification of Grazing Permittees—

Permittees using the National Forests for grazing purposes acquire their preference in one of three ways: (1) By prior use and occupancy, (2) by grant from the Government as new preferred applicants, (3) by purchasing or otherwise acquiring permitted stock under conditions warranting renewal of permit. In classifying permittees on the grazing record cards, Form 621, the class to which each individual permittee belongs should be determined by the manner in which he secured his initial permit to graze stock upon Forest land. All permittees who were occupying the ranges before their inclusion within a Forest should be classified as prior users. All permittees who were granted permits as new applicants but not as prior users or purchasers should be listed as new owners. All persons who acquired their preference through the purchase of permitted stock should be classified as purchasers. If a permittee's preference was acquired partly through prior use and occupancy, partly through voluntary increase by the Government, and partly through purchase the card should show it. A permittee should be classified according to his original status; a new owner or a purchaser does not become a prior user because of several years' use of the Forest under permit.

LANDS.

Excepted Strips—

The frequency of neglect to follow instructions by letter L, June 21, 1913, Settlement, Entry Survey, relative to the description of the width of strips to be excepted from listed tracts for roadways and trails indicates that those instructions are either overlooked or not understood. It is required that the width should not be expressed in fractions of a chain, as, for instance, 5/11 of a chain. It is required that it should be expressed either as 1 chain, 50 links, or 25 links, as the case may be.

Telephone Lines—

Failure is noted in many instances to comply with instructions requiring that maps showing the reservation of right of way needed for maintenance of telephone lines, constructed and used by the Forest Service, should be submitted in duplicate on *tracing linen,* and not on blue prints. These tracings, with the field notes of survey, also in duplicate, should be transmitted in a letter to the Secretary of the Interior, prepared for signature by the Secretary of Agriculture, recommending that the right of way be reserved and noted upon the records of the Interior Department pursuant to the decision of the First Assistant Secretary of the Interior, August 29, 1911 (D–17642). The telephone-line letter should be separate from the list letter embracing the lands traversed by the right-of-way reservation.

SERVICE PUBLICATIONS ISSUED.

Departmental Bulletin 4.—The Reseeding of Depleted Grazing Lands to Cultivated Forage Plants.

Departmental Bulletin 9.—An Economic Study of Acacias.

Departmental Bulletin 24.—Cottonwood in the Mississippi Valley.

Departmental Bulletin 34.—Range Improvement by Deferred and Rotation Grazing.

Folder for Columbia National Forest.

Folder for Sopris National Forest.

Folder for Pike National Forest.

The Use Book, 1913.

Report of the Forester, 1913.

CUMULATIVE INDEX TO SERVICE NOTES AND ORDERS.

(JULY, 1913–JANUARY, 1914.)

[Numbers in parentheses after the month indicate page.]

Annual property return; January (90).
Appointed chief clerk of the Department of the Interior; July (28).
Classification of grazing permittees; January (92).
Color tints and crayons; July (27).
Conference at Salt Lake City; October (59).
Cooperation in securing commercial and botanical range data; July (28).
Crayons and color tints; July (27).
Excepted strips; January (92).
Fire trespass. (*See* Trespass, fire.)
Form 411.—Report of Description of Horses, Mules, and Burros; January (91).
Grazing trespass. (*See* Trespass, grazing.)
Law cases in district 1; July (24); January (87).
2; July (25); October (59); January (87–88).
3; July (26); January (88).
4; July (27); January (88–89).
5; October (61); January (90).
6; July (27); January (90).

Occupancy trespass. (*See* Trespass, occupancy.)
Parcel post; January (91).
Record of Land Office corners; January (91).
Right of way—former procedure restored; October (62).
Telephone lines; January (92).
Timber trespass. (*See* Trespass, timber.)
Trespass cases, fire, district 1; July (24).
2; July (25); October (60–61); January (88).
3; July (26).
5; October (61–62); January (90).
6; July (27); January (90).
grazing, district 1; July (25); January (87).
2; July (25); October (61); January (88).
3; July (26); January (88).
4; July (27); January (89–90).
5; January (90).
6; January (90).
occupancy, district 1; January (87).
2; January (87–88).
3; July (26).
4; July (27); January (88–89).
5; January (90).
timber, district 1; July (24).
2; October (61); January (88).
3; July (26); January (88).
4; January (89).
5; October (61); January (90).
6; January (90).

WASHINGTON: GOVERNMENT PRINTING OFFICE: 1914

Issued April 15, 1914.

UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.

HENRY S. GRAVES, Forester.

April Field Program, 1914.

This program of field work and assignments in the Forest Service is issued quarterly on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

OFFICE OF THE FORESTER.

HENRY S. GRAVES, Forester.
ALBERT F. POTTER, Associate Forester.

HERBERT A. SMITH, editor; BRISTOW ADAMS, in charge of information.
FINDLEY BURNS, in charge of technical review.
Educational cooperation, DON CARLOS ELLIS.
Proofs and forms, CLAUDE M. BALLARD.
GEORGE B. SUDWORTH, dendrologist.
EUGENE S. BRUCE, expert lumberman.

ACCOUNTS.

M. E. FAGAN, chief; E. A. MELZAR, assistant chief.

OPERATION.

JAMES B. ADAMS, assistant forester, in charge; D. D. BRONSON, forest inspector; ALLEN S. PECK, forest inspector; GEORGE G. ANDERSON, administrative assistant.

GEOGRAPHY.—C. A. KOLB, chief.

ATLAS.—G. B. BRUCE.

DRAFTING.—J. M. WITHEROW.

PHOTOGRAPHY.—E. S. SHIPP.

ALIENATION.—J. B. SATTERLEE, J. E. BURCH.

MAINTENANCE.—GEORGE A. BENTLEY, chief.

SUPPLIES.—S. L. MCLAURIN, property clerk.

SILVICULTURE.

W. B. GREELEY, assistant forester, in charge; EARLE H. CLAPP, forest inspector; R. Y. STUART, forest inspector; AUSTIN CARY, logging engineer; BARRINGTON MOORE, forest plans; HARRY IRION, office assistant. FRANKLIN H. SMITH, statistician in forest products, special detail, 501 Federal Building, Chicago, Ill.

STATE COOPERATION.—J. G. PETERS, chief.

Inspection.—L. S. Murphy.

Compilation of State forest laws.—Miss J. S. Peyton.

Collaborators, State cooperative fire protection under the Weeks law.—B. S. Viles, land agent and forest commissioner, Augusta, Me.; E. C. Hirst, State forester, Concord, N. H.; F. H. Billard, forester, New Hampshire Timberland Owners' Association, Berlin, N. H.; A. F. Hawes, State forester, Burlington, Vt.; F. W. Rane, State forester, Boston, Mass.; W. O. Filley, State forester, New Haven, Conn.; W. G. Howard, assistant superintendent of forests, Albany, N. Y.; C. P. Wilber, State fire warden, Trenton, N. J.; F. W. Besley, State forester, Baltimore, Md.; J. A. Viquesney, forest, game, and fish warden, Belington, W. Va.; J. E. Barton, State forester, Frankfort, Ky.; E. M. Griffith, State forester, Madison, Wis.; Wm. T. Cox, State forester, St. Paul, Minn.; G. W. Roskie, State forester, Custer, S. Dak.; ———, State forester, Helena, Mont.; G. A. Day, State land commissioner, Boise, Idaho; F. A. Elliott, State forester, Salem, Oreg.; E. W. Ferris, State forester and fire warden, Olympia, Wash.

Study of forest conditions in North Carolina in cooperation with State Geological and Economic Survey.—J. S. Holmes, Chapel Hill.

FOREST INVESTIGATIONS.—RAPHAEL ZON, chief; S. T. DANA, assistant chief.

Studies.—E. H. Frothingham, W. D. Sterrett, C. R. Tillotson, G. N. Lamb, W. R. Mattoon, G. E. Clement, C. H. Shinn.

FOREST DISTRIBUTION.—W. H. LAMB, in charge; Miss G. E. Wharton.

COMPUTING.—W. B. BARROWS.

LIBRARY.—Miss H. E. STOCKBRIDGE.

COMPILATION.—GEO. DE S. CANAVARRO; Miss E. B. Leech.

Cloquet Experiment Station in cooperation with the University of Minnesota.—W. H. Kenety, Cloquet, Minn.

GRAZING.

A. F. POTTER, associate forester, in charge; L. F. KNEIPP, assistant forester; WILL C. BARNES, inspector of grazing.

GRAZING STUDIES (in cooperation with F. V. Coville, botanist, Bureau of Plant Industry).—James T. Jardine, inspector of grazing, in charge, Washington, D. C.

Forage investigations.—William A. Dayton, plant ecologist, Washington, D. C.

William R. Chapline, grazing assistant, Washington, D. C.

LANDS.

JAMES B. ADAMS, assistant forester, in charge; W. J. MANGAN, examiner.

LAND CLASSIFICATION, E. A. SHERMAN, in charge.

SETTLEMENT.—F. L. HARVEY, in charge.

ENTRY SURVEYS.—ROBERT V. R. REYNOLDS, in charge.

BOUNDARIES.—H. E. WOOLLEY, in charge.

WATER POWER.—O. C. MERRILL, chief engineer; T. W. NORCROSS, assistant chief engineer; R. R. RANDELL, junior engineer.

CLAIMS AND OCCUPANCY.—CHARLES H. SQUIRE, in charge.

PRODUCTS.

W. B. GREELEY, assistant forester, in charge.

FOREST PRODUCTS LABORATORY (in cooperation with the University of Wisconsin, Madison, Wis.).—HOWARD F. WEISS, director.

H. S. BETTS and CARLILE P. WINSLOW, administrative assistants.

ADVISORY BOARD.—Dr. W. K. Hatt, mechanical and civil engineer, Purdue University; Prof. Charles F. Burgess, chemical engineer, and Dr. L. R. Ingersoll, professor of physics, University of Wisconsin; Prof. I. W. Bailey, forestry school, Harvard University.

Design of laboratory equipment.—ROLF THELEN.

Review of results.—FRANK J. HALLAUER.

DERIVED PRODUCTS.—ERNEST BATEMAN, acting in charge; A. W. Schorger, F. W. Kressman, R. C. Palmer, Homer Cloukey, Lester E. Cover.

ENGINEERING.—A. L. HEIM, in charge; James O. Bixby, O. M. Sutherland, Harry N. Knowlton.

MAINTENANCE.—CHAS. P. JUCKEM, in charge.

PULP AND PAPER.—O. L. E. WEBER, in charge; H. E. Surface, Sidney D. Wells, G. C. McNaughton, Charles S. Gwinn, Sidney E. Lunak, Clinton K. Texter.

TIMBER PHYSICS.—H. D. TIEMANN, in charge; Eloise Gerry, N. de W. Betts, M. E. Diemer, James E. Imrie, A. Koehler.

TIMBER TESTS.—JOHN A. NEWLIN, in charge; A. K. Armstrong, Thomas R. C. Wilson, Lorraine J. Markwardt.

WOOD PRESERVATION.—CLYDE H. TEESDALE, in charge; Geo. E. Hunt, James D. MacLean, Robt. E. Prince, E. C. Sparver.

PATHOLOGY (in cooperation with the Bureau of Plant Industry).—C. J. HUMPHREY, in charge; Ruth E. Fleming.

INDUSTRIAL INVESTIGATIONS.—O. T. SWAN, in charge, Washington, D. C. Wood Industry Statistics, Jesse C. Nellis, Clark W. Gould, and W. D. Brush, Washington, D. C. Waste Utilization, R. K. Helphenstine, jr., Washington, D. C. Production of Lumber and Forest Products (in cooperation with the Bureau of Statistics, the Bureau of the Census, and lumber manufacturers' associations), A. H. Pierson, Washington, D. C. Blighted Chestnut Utilization Studies, Jesse C. Nellis, Washington, D. C. Veneer Investigations, S. L. Wolfe, Washington, D. C. Slack-cooperage Investigations, O. T. Swan, Washington, D. C. Tight-cooperage Investigations (Dist. 7), John T. Harris, Washington, D. C. Departmental Cooperation, Inspection, and Revision of Government Specifications, R. E. Simmons, Washington, D. C. Box Industry Investigations, Jesse C. Nellis, Washington, D. C. Furniture Industry Investigations (Chicago office, Silviculture), Franklin H. Smith, Chicago, Ill. Reports on Foreign Hardwoods, C. D. Mell and W. D. Brush, Washington, D. C. Collaborators, Hu Maxwell, Chicago, Ill.; A. B. Strough, Albany, N. Y.; and Hugh P. Baker, Syracuse, N. Y.

ACQUISITION OF LANDS UNDER THE WEEKS LAW.

WM. L. HALL, assistant forester, in charge, Washington, D. C.

LUMBERMAN'S EXAMINATIONS.—C. D. Cushing, E. D. Fletcher, and George E. Marshall, Washington, D. C.

EXAMINATIONS OF LANDS.—W. W. ASHE, forest inspector, in charge, Washington, D. C. White Mountain Area, J. S. Benedict, in charge, Gorham, N. H., D. W. Martin, forest examiner, R. J. Noyes, H. S. Davis, Karl Schmitt, Louis H. Steffens, forest assistants; Massanutten, Potomac, and Youghiogheny Areas, E. D. Clark, forest examiner in charge, Woodstock, Va.; Shenandoah Area, S. H. Marsh, forest examiner, in charge, Harrisonburg, Va.; Natural Bridge Area, J. H. Fahrenbach, forest examiner, in charge, Natural Bridge, Va., E. L. Lindsey, J. S. Kaplan, and W. E. Barbour, forest assistants; Monongahela Area, W. A. Hopson, forest examiner, in charge, Elkins, W. Va.; White Top Area, R. P. Holdsworth, forest assistant, in charge, Abingdon, Va.; Unaka

Area, E. P. Bushnell, forest examiner, in charge, Johnson City, Tenn., J. H. Keyes, forest assistant; Mount Mitchell Area, L. L. Bishop, forest examiner, in charge, Marion, N. C., E. M. Bruner, forest assistant; Nantahala Area, R. F. Hemingway, forest examiner, in charge, Andrews, N. C.; Smoky Mountain Area, V. Rhoades, forest examiner, in charge, Townsend, Tenn., and W. J. Damtoft, forest assistant; Pisgah Area, J. J. Fritz, forest examiner, in charge, Highlands, N. C.; Savannah Area, R. W. Shields, forest examiner, in charge, Clayton, Ga., H. G. Spahr, forest assistant; Georgia Area, E. V. Clark, forest examiner, in charge, Blue Ridge, Ga., R. C. Hall, forest examiner; Cherokee Area, H. L. Johnson, forest examiner, in charge, Etowah, Tenn., H. L. Russell and S. H. Thompson, forest examiners, and H. M. Sears, forest assistant; Alabama Area, C. E. Beaumont, forest examiner, Haleyville, Ala.

Survey of Lands.—Rudolph Dieffenbach, forest examiner, in charge; Robert G. Merritt, forest examiner; White Mountain Area, Arthur E. Hoxie, Frederick A. Gardner, and Leon C. Marshall, examiners of surveys; Vincent L. Ahern and Leonard J. Long, transitmen, Gorham, N. H.; Potomac Area, A. M. Ockerblad, Alfred P. Hamilton, and E. P. Whitten, examiners of surveys, and Rodney D. Brown, transitman, Woodstock, Va.; Massanutten Area, E. F. Benedum and Edward R. Conrad, examiners of surveys, and Archibald D. Duffie, transitman, Woodstock, Va.; Mount Mitchell Area, Dave M. Gibson, examiner of surveys, Marion, N. C.; Nantahala Area, James Denman, examiner of surveys, and Max McCullough, transitman, Andrews, N. C.; Georgia Area, Thomas A. Cox, jr., and E. L. Merrill, examiners of surveys, and Francis C. Hall, transitman, Blue Ridge, Ga.; Unaka Area, Robert E. Witt, examiner of surveys, and James Gore, jr., transitman, Johnson City, Tenn.; Savannah Area, William N. Sloan, Roy L. McGuire, and Harold G. Wood, examiners of surveys, and John W. Fox, transitman, Highlands, N. C.; Monongahela Area, Marvin L. Taylor, examiner of surveys, Elkins, W. Va.; Shenandoah Area, C. F. Muzzey, examiner of surveys, Harrisonburg, Va.; Natural Bridge Area, Beverly M. Higginbotham, examiner of surveys, Natural Bridge, Va.

Administration of Acquired Lands.—K. W. Woodward, forest inspector, in charge, Washington, D. C.

Law.—A. H. McConville, assistant to solicitor, in charge, Washington, D. C. A. S. Lanier, assistant to solicitor, Richmond, Va.; Record examiners, George E. Taylor, Clarence E. Miles, and James H. Swan, Bristol, Tenn.; Alfred S. Grigg, Johnson City, Tenn.; Julius Fletcher, Franklin, N. C.; Collin H. Harding, Marion, N. C.; Charles E. Jones, Walhalla, S. C.; Cameron F. McRae, Clayton, Ga.; John M. Burns, Blue Ridge, Ga.; M. B. Stickley, Staunton, Va.; W. L. Newman and M. E. Stickley, Woodstock, Va.; Frederick Goshorn, Moorefield, W. Va.

DISTRICT 1.

Montana, northeastern Washington, northern Idaho, northwestern South Dakota, and southwestern North Dakota. Office, Federal Building, Missoula, Mont.

F. A. SILCOX, district forester; E. W. KRAMER, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). D. F. McGOWAN, assistant to the solicitor, in charge.

ACCOUNTS.—JOHN A. URBANOWICZ, district fiscal agent.

OPERATION.—J. F. PRESTON, assistant district forester; R. B. ADAMS, superintendent of telephone construction.

MAINTENANCE.—GARDNER I. PORTER.

SILVICULTURE.—D. T. MASON, assistant district forester; DORR SKEELS and H. F. ELLARD, logging engineers.

TIMBER SALES.—A. B. HASTINGS.

PLANTING.—H. H. FARQUHAR.

S. S. J. MALVEN, insect control.

JAMES R. WEIR, consulting pathologist, Missoula, Mont.

GRAZING.—C. H. ADAMS, assistant district forester.

STUDIES.—CHAS. E. FLEMING, grazing examiner.

LANDS.—R. H. RUTLEDGE, assistant district forester; JOHN D. JONES, assistant.

CLAIMS.—P. J. O'BRIEN.

SETTLEMENT.—J. W. STREIT.

LAND CLASSIFICATION.—C. B. SWIM, assistant.

PRODUCTS.—P. R. HICKS.

EXPERIMENT STATION.

Priest River, Kaniksu National Forest.—DONALD R. BREWSTER, in charge, Priest River, Idaho.

NATIONAL FORESTS.

IDAHO.

Clearwater.—CHARLES A. FISHER, forest supervisor, Orofino (WU–Am).

Coeur d'Alene.—MEYER H. WOLFF, forest supervisor, Coeur d'Alene (WU–Am); Fred R. Mason and W. W. Morris, deputy forest supervisors; and F. I. Rockwell, forest examiner.

Kaniksu.—See Washington.

Nezperce.—GEORGE V. RING, forest supervisor, Grangeville (WU–Am); J. Arthur Brown, deputy forest supervisor.

Pend Oreille.—J. A. FITZWATER, forest supervisor, Sandpoint (WU–Am, N, W); R. Trevor Ferguson, deputy forest supervisor.

Selway.—FRANK A. FENN, forest supervisor, Kooskia (WU–N); Charles F. Howell, deputy forest supervisor.

St. Joe.—EDWARD A. HOLCOMB, forest supervisor, St. Maries (Continental–WF); Wilford B. Willey, deputy forest supervisor; Richard C. Eggleston, forest examiner.

MONTANA.

Absaroka.—JOSEPH D. WARNER, forest supervisor, Livingston (WU–Am, N).

Beartooth.—GLEN A. SMITH, forest supervisor, Billings (WU–Am, N); J. C. Whitham, deputy forest supervisor.

Beaverhead.—C. K. WYMAN, forest supervisor, Dillon (WU–Am); John E. David, deputy forest supervisor.

Bitterroot.—W. W. WHITE, forest supervisor, Missoula (WU–Am, N); Herbert F. Lindsay, forest assistant.

Blackfeet.—R. P. MCLAUGHLIN, forest supervisor, Kalispell (WU–Am, GN); Charles E. Baker, forest assistant.

Cabinet.—CLAUDE W. GRIFFIN, forest supervisor, Thompson Falls (WU–Am. N); Carl M. Stevens, forest assistant.

Custer.—GEORGE E. MARTIN, forest supervisor, Miles City (WU–Am, N).

Deerlodge.—LEWIS C. STOCKDALE, forest supervisor, Anaconda (P–Am, N); C. N. Whitney, C. R. Clark, and J. C. Whitham, forest examiners.

Flathead.—DONALD BRUCE, forest supervisor, Kalispell (WU–Am, GN); John H. Clack, deputy forest supervisor.

Gallatin.—D. T. CONKLING, forest supervisor, Bozeman (WU–Am, N); Arthur H. Abbott, deputy forest supervisor; Howard E. West, forest assistant.

Helena.—J. B. SEELY, forest supervisor, Helena (WU–Am, N).

Jefferson.—SCOTT LEAVITT, forest supervisor, Great Falls (WU–Am, N); Wellman Holbrook, deputy forest supervisor; Adrian C. Adams, forest assistant.

Kootenai.—WILLIAM A. RAYMOND, acting forest supervisor, Libby (WU–Am, GN); William C. Latane and Justin K. Dwinelle, deputy forest supervisors; Webster H. Ransom and John C. Ketridge, forest examiners.

Lewis and Clark.—THOMAS C. SPAULDING, forest supervisor, Chouteau (WU–Am, GN).

Lolo.—ELERS KOCH, forest supervisor, Missoula (WU, P–Am, N); John E. Keach, forest examiner; William W. Bennett, forest assistant.

Madison.—ROSCOE G. WILLSON, acting forest supervisor, Sheridan (WU–Am, N); Ralph E. Bodley and E. F. Jones, forest assistants.

Missoula.—RUTLEDGE PARKER, forest supervisor, Missoula (WU, P–Am, N); Fay G. Clark, forest assistant.

Sioux.—See South Dakota.

NORTH DAKOTA.

Dakota.—C. A. BALLINGER, forest supervisor, Camp Crook, S. Dak. (WU via Bellefourche–Am via Bellefourche).

SOUTH DAKOTA.

Sioux.—C. A. BALLINGER, forest supervisor, Camp Crook (WU via Bellefourche–Am via Bellefourche).

WASHINGTON.

Kaniksu.—M. N. STICKNEY, forest supervisor, Newport (WU–Am, GN); J. F. Forsythe, deputy forest supervisor.

DISTRICT 2.

Colorado, Wyoming, South Dakota, Nebraska, western Kansas, northern Michigan, and northern Minnesota. Office, Majestic Building, Denver, Colo.

SMITH RILEY, district forester; LYLE A. WHITSIT, hydroelectrical engineer.

LAW.—Office of the Solicitor (Forest Service branch). GEORGE E. TROWBRIDGE, assistant to the solicitor, in charge.

ACCOUNTS.—H. I. LOVING, district fiscal agent.

OPERATION.—FRED W. MORRELL, assistant district forester.

MAINTENANCE.—F. H. CARROLL.

SILVICULTURE.—C. M. GRANGER, assistant district forester; J. H. POTTS, forest examiner.

PLANTING.—SEWARD D. SMITH.

FOREST INVESTIGATIONS.—C. G. BATES.

CARL HARTLEY, consulting pathologist, Washington, D. C.

GRAZING.—J. W. NELSON, assistant district forester.

STUDIES.—LYNN H. DOUGLAS, grazing examiner.

LANDS.—C. J. STAHL, assistant district forester; THOS. M. MOORMAN, assistant.

EXPERIMENT STATIONS.

Fremont, Pike National Forest.—F. B. NOTESTEIN, Manitou, Colo.

Wagon Wheel Gap, Rio Grande National Forest.—PETER KEPLINGER and Howard R. Flint, Wagon Wheel Gap, Colo., and Thomas A. Blair, of the Weather Bureau.

NATIONAL FORESTS.

COLORADO.

Arapaho.—ALVA A. SIMPSON, forest supervisor, Fraser (WU–Ad); Arthur T. Upson, forest examiner.

Battlement.—JOHN W. LOWELL, jr., forest supervisor, Colbran (WU–WF, G); George Z. Mason, forest examiner.

Cochetopa.—EUGENE WILLIAMS, forest supervisor, Saguache (WU–G); Charles P. Bliss, forest examiner.

Colorado.—H. N. WHEELER, forest supervisor, Fort Collins (WU–WF).

Durango.—ERNEST W. SHAW, forest supervisor, Durango (WU–G); R. S. Wheeler, forest examiner.

Gunnison.—WILLIAM R. KREUTZER, forest supervisor, Gunnison (WU–WF, G); Harold L. Borden, forest assistant.

Hayden.—See Wyoming.

Holy Cross.—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU–WF, G); George R. Morrison, forest examiner.

La Sal.—See Utah, District 4.

Leadville.—R. E. CLARK, forest supervisor, Leadville (WU, P–WF, G); J. E. Martin, forest examiner.

Montezuma.—RESS PHILLIPS, forest supervisor, Mancos (WU–G); Gordon Parker, forest examiner.

Pike.—THEO. SHOEMAKER, forest supervisor, Denver (WU, P–Ad, Am, G, US, WF); W. I. Hutchinson, forest examiner; V. A. Beede, Everard S. Keithley, forest assistants; Monument Nursery, W. H. Schrader, forest planting assistant, Monument.

Rio Grande.—A. L. SWEITZER, forest supervisor, Monte Vista (WU–G); Walter F. Bowers, deputy forest supervisor; Jay Higgins, forest examiner.

Routt.—J. H. RATLIFF, forest supervisor, Steamboat Springs (WU–Ad); Ray Peck, deputy forest supervisor.

San Isabel.—J. N. LANGWORTHY, forest supervisor, Westcliffe (WU–G); Albin G. Hamel, forest examiner.

San Juan.—H. EARL FRENCH, forest supervisor, Pagosa Springs (WU–G); A. F. C. Hoffman, forest examiner.

Sopris.—JOHN MCLAREN, forest supervisor, Aspen (WU–WF, G); W. G. Baxter, forest examiner.

Uncompahgre.—HOWARD S. BUSHNELL, forest supervisor, Delta (WU–G); J. H. Ramskill, forest examiner.

White River.—JAMES A. BLAIR, forest supervisor, Meeker (WU–WF, G); Crosby A. Hoar, forest examiner.

KANSAS.

Kansas.—B. R. H. D'ALLEMAND, forest supervisor, Garden City (WU, P–WF); Garden City Nursey.

MICHIGAN.

Marquette. Michigan.—W. B. PIPER, forest supervisor, East Tawas (WU–Am).

MINNESOTA.

Minnesota.—G. E. MARSHALL, forest supervisor, Cass Lake (WU–Am, GN); Howard H. Richmond, forest assistant.

Superior.—LESLIE BROWNELL, forest supervisor, Ely (WU–GN); Victor C. Follenius, forest assistant.

NEBRASKA.

Nebraska.—FRED R. JOHNSON, forest examiner, Halsey (WU–Ad); Halsey Nursery, Theodore Krueger, forest assistant.

SOUTH DAKOTA.

Black Hills.—PAUL D. KELLETER, forest supervisor, Deadwood (WU–Ad, Am); William Wiehe, deputy forest supervisor; Percy T. Smith, Huber C. Hilton, forest examiners; M. J. Sweeney, Roscoe B. Weaver, forest assistants.

Harney.—R. P. IMES, forest supervisor, Custer (WU–Ad); Richard A. Phillips, forest assistant.

WYOMING.

Bighorn.—E. N. KAVANAGH, forest supervisor, Sheridan (WU–Ad); Andrew G. Stockwell, deputy forest supervisor; Earl S. Peirce, forest examiner.

Bonneville.—L. E. COOPER, forest supervisor, Dubois (WU–Am); Myron W. Thompson, forest examiner; Clarence E. Taylor and Richard T. Guthrie, forest assistants.

Bridger.—H. C. HALL, forest supervisor, Pinedale (WU–Am).

Hayden.—JAMES BLACKHALL, forest supervisor, Encampment (WU, P–Am); P. J. Paxton, forest examiner.

Medicine Bow.—GEO. A. DUTHIE, forest supervisor, Laramie (WU, P–Am); D. S. Jeffers, deputy forest supervisor.

Shoshone.—R. W. ALLEN, forest supervisor, Cody (WU–Ad); Fred B. Agee, deputy forest supervisor.

Sundance.—PAUL D. KELLETER, forest supervisor, Deadwood, S. Dak. (WU–Ad, Am).

Washakie.—C. G. POOLE, forest supervisor, Lander (WU–Am).

DISTRICT 3.

Arizona, New Mexico, and Oklahoma. Office, Luna-Otero Building, Albuquerque, N. Mex.

A. C. RINGLAND, district forester; LYLE A. WHITSIT, hydroelectrical engineer.

LAW.—Office of the Solicitor (Forest Service branch). J. O. SETH, assistant to the solicitor, in charge.

ACCOUNTS.—ALBERT MORRIS, district fiscal agent.

OPERATION.—A. O. WAHA, assistant district forester; PAUL P. PITCHLYNN, geography; HOWARD B. WAHA, road construction.

MAINTENANCE.—H. B. HAMMOND.

SILVICULTURE.—T. S. WOOLSEY, Jr., assistant district forester; JOSEPH C. KIRCHER, forest examiner; ATHOL A. WYNNE, lumberman, and QUINCY RANDLES, forest examiner, timber sale inspection, and check-scaling.

GRAZING.—JOHN KERR, assistant district forester.

STUDIES.—R. R. HILL, grazing examiner; ARTHUR D. READ, forest examiner.

LANDS.—FRANK C. W. POOLER, assistant district forester; M. M. CHENEY, national forest examiner. Classification: FREDERIC WINN, national forest examiner; FRANK E. ANDREWS, forest supervisor; REX KING, forest examiner. Entry surveys: W. H. FINIGAN, surveyor, Carson; W. G. TURLEY, surveyor, Coconino; R. P. A. JOHNSON, surveyor, Carson.

EXPERIMENT STATION.

Fort Valley, Coconino National Forest.—G. A. PEARSON, Flagstaff, Ariz.; Clarence F. Korstian, forest assistant.

NATIONAL FORESTS.

ARIZONA.

Apache.—JOHN D. GUTHRIE, forest supervisor, Springerville (WU, P–WF); Clifford W. McKibbin, forest examiner; W. L. Schofield, forest assistant.

Chiricahua.—A. H. ZACHAU, forest supervisor, Portal, via Rodeo, N. Mex. (WU–WF).

Coconino.—WILLARD M. DRAKE, forest supervisor, Flagstaff (WU, P–WF); Thomas E. McCullough, Gordon T. Backus, and H. D. Burrall, forest examiners; Murrell W. Talbot, forest assistant.

Coronado.—ROBERT J. SELKIRK, forest supervisor, Tucson (WU–WF).

Crook.—T. T. SWIFT, forest supervisor, Safford (WU–WF).

Prescott.—C. H. HINDERER, forest supervisor, Prescott (WU–WF); J. C. McNelty, deputy forest supervisor; Edward P. Ancona, forest assistant.

Sitgreaves.—CHARLES H. JENNINGS, forest supervisor, Snowflake (WU, P–WF).

Tonto.—C. C. HALL, forest supervisor, Roosevelt (WU–WF); Reginald B. Forbes, forest assistant.

Tusayan.—HAROLD GREENE, forest supervisor, Williams (WU, P–WF); Robert L. Deering, deputy forest supervisor; George W. Kimball, forest assistant.

Zuni.—See New Mexico.

NEW MEXICO.

Alamo.—R. F. BALTHIS, forest supervisor, Cloudcroft (WU–WF).

Carson.—RAYMOND E. MARSH, acting forest supervisor, Tres Piedras (WU–G). Aldo Leopold, forest supervisor (on leave); Chas. H. Kissam, deputy forest supervisor; Earl W. Loveridge, forest assistant.

Chiricahua.—See Arizona.

Datil.—W. H. GODDARD, forest supervisor, Magdalena (WU, P–WF); H. Basil Wales, forest examiner; Ward Shepard, forest assistant.

Gila.—HUGH G. CALKINS, supervisor, Silver City (WU, P–WF); Ausburn H. Douglas, deputy forest supervisor; N. Curtis Case, forest examiner; Fort Bayard Nursery, H. C. Turner, forest planting assistant; Marinus Westveld, forest assistant. Extensive reconnaissance; Otto F. Swenson, forest examiner, in charge; Ernest Wohlenburg, forest assistant.

Jemez.—DON P. JOHNSTON, forest supervisor, Santa Fe (WU, P–G); Wilbur J. O. Byrne, forest assistant.

Lincoln.—J. A. KINNEY, forest supervisor, Capitan (WU–WF).

Manzano.—JAMES F. MULLEN, forest supervisor, Albuquerque (WU, P–WF).

Pecos.—DON P. JOHNSTON, forest supervisor, Santa Fe (WU, P–WF); Ira T. Yarnall, forest assistant; Las Gallinas Nursery, Herman Krauch, examiner; Thomas P. Reid, forest assistant.

Zuni.—JAMES F. MULLEN, forest supervisor, Albuquerque (WU, P–WF).

OKLAHOMA.

Wichita.—FRANK RUSH, game warden, in charge, Cache (WU–WF).

DISTRICT 4.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Forest Service Building, Ogden, Utah.

E. A. SHERMAN, district forester; J. P. MARTIN, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). J. F. LAWSON, assistant to the solicitor, in charge.

ACCOUNTS.—Q. R. CRAFT, district fiscal agent.

OPERATION.—A. C. MCCAIN, assistant district forester.

MAINTENANCE.—FELIX T. MOORE.

SILVICULTURE.—O. M. BUTLER, assistant district forester; D. F. SEERY, logging engineer; D. M. LANG, S. C. SCRIBNER, scalers.

PLANTING.—J. M. FETHEROLF.

COMPILATION RECONNAISSANCE DATA: Wyoming National Forest.—R. A. STRETCH, forest supervisor.

GRAZING.—HOMER E. FENN, assistant district forester.

STUDIES.—ALFRED E. ALDOUS, grazing examiner.

LANDS.—T. C. HOYT, assistant district forester; R. E. GERY, assistant; B. L. Wheeler, mineral examiner; C. G. Smith, in charge of land classification.

SUPPLY DEPOT.—A. M. SMITH, property clerk.

PROPERTY AUDIT.—J. G. FALCK, property auditor.

EXPERIMENT STATION.

Utah, Manti National Forest.—ARTHUR W. SAMPSON, in charge; E. R. Hodson, Ephraim, Utah.

NATIONAL FORESTS.

ARIZONA.

Dixie.—See Utah.

Kaibab.—JAMES L. PELTON, forest supervisor, Kanab, Utah (WU–WF).

IDAHO.

Boise.—E. GRANDJEAN, forest supervisor, Boise (WU–Am); M. S. Benedict, deputy forest supervisor; Dana Parkinson, forest examiner.

Cache.—See Utah.

Caribou.—G. G. BENTZ, forest supervisor, Montpelier (WU–Am); L. W. Hastings, deputy forest supervisor; J. H. Hull, forest assistant.

Challis.—DAVID LAING, forest supervisor, Challis (WU–Am).

Idaho.—HERBERT GRAFF, forest supervisor, McCall (WU–P).

Lemhi.—C. I. HUDDLE, forest supervisor, Mackay; E. C. Sanford, forest assistant (WU–Am).

Minidoka.— ———, forest supervisor, Oakley; C. D. Simpson, forest assistant (WU–Am).

Palisade.—FRANK J. RYDER, forest supervisor, St. Anthony (WU–Am); C. F. Evans, forest assistant.

Payette.—GUY B. MAINS, forest supervisor, Emmett (WU–Am); Lawrence J. Phelan, deputy forest supervisor; W. N. Sparhawk, forest examiner; W. A. Smith and Lee O. Miles, forest assistants.

Pocatello.—CLINTON G. SMITH, forest supervisor, Logan, Utah; Pocatello Nursery, Arthur P. Say, forest ranger, Pocatello.

Salmon.—JOHN A. PEARSON, forest supervisor, Salmon (WU–Am); S. S. Stewart, deputy forest supervisor; Herman Work, forest examiner.

Sawtooth.—C. N. WOODS, forest supervisor, Hailey (WU–Am); Herbert G. McPheters and Samuel B. Locke, deputy forest supervisors.

Targhee.—CHESTER B. MORSE, forest supervisor, St. Anthony (WU–Am); Charles A. Beam, deputy forest supervisor; J. W. Stokes, forest examiner.

Weiser.—J. B. LAFFERTY, forest supervisor, Weiser (WU–Am); W. M. Campbell, deputy forest supervisor; A. E. Oman, forest examiner.

NEVADA.

Humboldt.—S. B. ARTHUR, forest supervisor, Gold Creek (WU–WF).
Moapa.—THOMAS J. COLLINS, forest supervisor, Austin (WU–Am).
Nevada.—GEO. C. THOMPSON, forest supervisor, Ely (WU–WF).
Ruby.—JAMES M. RYAN, forest supervisor, Elko (WU–WF).
Santa Rosa.—W. W. BLAKESLEE, forest supervisor, Paradise.
Toiyabe.—THOMAS J. COLLINS, forest supervisor, Austin (WU, P–WF); R. D. Garver, forest assistant.

UTAH.

Ashley.—W. M. ANDERSON, forest supervisor, Vernal (WU–WF).
Cache.—CLINTON G. SMITH, forest supervisor, Logan (WU–Am); E. C. Shepard, forest examiner.
Dixie.—JOHN RAPHAEL, forest supervisor, St. George (WU–WF).
Fillmore.—ERNEST WINKLER, forest supervisor, Richfield (WU–WF); Lester E. Hitchcock, forest examiner.
Fishlake.—CARL B. ARENTSON, forest supervisor, Salina (WU–WF); D. A. Arrivee, forest assistant.
La Sal.—J. W. HUMPHREY, forest supervisor, Moab (WU–WF).
Manti.—A. W. JENSEN, forest supervisor, Ephraim (WU–WF); B. E. Mattsson, deputy forest supervisor; J. C. Roak and E. S. Baker, forest assistants.
Minidoka.—See Idaho.
Pocatello.—See Idaho.
Powell.—GEO. H. BARNEY, forest supervisor, Escalante (WU–WF).
Sevier.—O. C. SNOW, forest supervisor, Panguitch (WU–WF).
Uinta.—W. I. PACK, forest supervisor, Provo (WU–WF); J. Carl Allred, deputy forest supervisor.
Wasatch.—J. F. BRUINS, forest supervisor; Lee A. Harris, deputy forest supervisor, Salt Lake City (WU, P–Am, WF); S. E. Bower, forest assistant; Cottonwood Nursery, N. J. Fetherolf, forest planting assistant; Beaver Creek Nursery, Asa L. Brower, forest examiner in charge, Kamas.

WYOMING.

Ashley.—See Utah.
Caribou.—See Idaho.
Palisade.—See Idaho.
Targhee.—See Idaho.
Teton.—R. E. MILLER, forest supervisor, Jackson (WU–Am); H. B. Maris, forest examiner.
Wyoming.—JAMES E. JEWELL, forest supervisor, Afton (WU–Am); John E. Ingram, deputy forest supervisor.

DISTRICT 5.

California and southwestern Nevada. Office, First National Bank Building, San Francisco, Cal.

COERT DUBOIS, district forester; F. H. FOWLER, district engineer; J. L. MATHIAS, assistant to district engineer; W. C. HODGE, jr., in charge information; CLARENCE WILEY, inspector of records.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge; MAURY CURTIS, assistant to the solicitor.

ACCOUNTS.—A. W. SMITH, district fiscal agent.

OPERATION.—ROY HEADLEY, assistant district forester; D. P. GODWIN, forest supervisor, assigned to fire protection; FREDERICK H. HAFLEY, telephone expert.

MAINTENANCE.—T. M. KENNEDY.

SILVICULTURE.—T. D. WOODBURY, assistant district forester; SWIFT BERRY, forest examiner; J. C. ELLIOTT, lumberman; H. N. ORMSBEE, logging engineer.

LOUIS MARGOLIN, forest examiner, reconnaissance.

FOREST INVESTIGATIONS.—L. T. LARSEN, forest examiner.

RALPH HOPPING, national forest examiner, insect control.

E. P. MEINECKE, consulting pathologist; J. S. BOYCE, scientific assistant, San Francisco, Cal.

GRAZING.—JOHN H. HATTON, assistant district forester.

LANDS.—L. A. BARRETT, assistant district forester; CHAS. S. BROTHERS, assistant; W. H. FRIEDHOFF, mineral examiner. Land classification: S. N. STONER, national forest examiner, in charge of district; J. O. MORROW, deputy forest supervisor, in charge of field party. Entry surveys: P. L. DAY, national forest examiner, surveyor.

PRODUCTS.—C. STOWELL SMITH, assistant district forester, in charge; C. A. KUPFER, forest examiner.

EXPERIMENT STATIONS.

Feather River, Plumas National Forest.—J. A. MITCHELL, forest examiner in charge, Quincy, Cal.

Converse, Angeles National Forest.—EDWARD N. MUNNS, forest assistant, in charge, Seven Oaks, Redlands, Cal.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P–WF).

California.—M. A. BENEDICT, forest supervisor, Willows (P–WF); B. H. Mace, deputy forest supervisor; S. W. Strothman, forest examiner.

Cleveland.—S. W. WYNNE, forest supervisor, San Diego (WU, P–WF).

Eldorado.—EVAN W. KELLEY, forest supervisor, Placerville (WU–WF); George W. Lyons, forest examiner.

Inyo.—A. H. HOGUE, forest supervisor, Bishop (WU–WF).

Kern.—F. P. CUNNINGHAM, acting forest supervisor, Hot Springs (WU via Ducor–WF).

Klamath.—W. B. RIDER, forest supervisor, Yreka (WU–WF); J. R. Hall, deputy forest supervisor; Douglas K. Noyes, forest examiner.

Lassen.—W. J. RUSHING, forest supervisor, Red Bluff (P–WF); Shirley W. Allen, deputy forest supervisor; R. H. Boerker, forest examiner.

Modoc.—C. E. RACHFORD, forest supervisor; Alturas (P–WF); Vernon L. Bonner, deputy forest supervisor; Belknap C. Goldsmith, forest examiner.

Mono.—See Nevada.

Monterey.—N. H. SLOANE, forest supervisor, Arbolado (WU, Monterey–WF, Monterey).

Plumas.—D. N. ROGERS, forest supervisor, Quincy (WU, Keddie, Cal.–G); W. G. Durbin, deputy forest supervisor; George R. Orr and Reese W. Taylor, forest examiners.

Santa Barbara.—W. M. SLOSSON, forest supervisor, Santa Barbara (P–WF); H. G. Merrill, deputy forest supervisor; W. M. Moore, forest examiner.

Sequoia.—ALLAN B. PATTERSON, forest supervisor, Hot Springs (WU via Ducor–WF).

Shasta.—R. F. HAMMATT, forest supervisor, Sisson (P–WF); M. R. Tillotson, deputy forest supervisor; Stewart B. Show and Edward I. Kotok, forest examiners; Pilgrim Creek Nursery, Fred W. Graham, assistant forest ranger, in charge, McCloud.

Sierra.—P. G. REDINGTON, forest supervisor, Northfork (WU via Friant–WF, Friant); Ernest G. Dudley and Cary Hill, forest examiners; Dwight C. Birch, forest assistant.

Stanislaus.—R. W. AYRES, forest supervisor, Sonora (WU–WF); T. C. West, deputy forest supervisor; J. V. Wulff, forest examiner.

Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU–WF); W. H. Gallaher and K. Mills, forest examiners.

Trinity.—W. A. HUESTIS, forest supervisor, Weaverville (WU–WF); J. D. Coffman, deputy forest supervisor; Ernst V. Jotter and O. M. Evans, forest examiners.

NEVADA.

Eldorado.—See California.

Inyo.—See California.

Mono.—WM. M. MAULE, forest supervisor, Gardnerville (WU–WF).

Tahoe.—See California.

DISTRICT 6.

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

GEO. H. CECIL, district forester; E. LEONARD LUNDGREN, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge; EARL C. ARNOLD, assistant to the solicitor.

ACCOUNTS.—A. H. COUSINS, district fiscal agent.

OPERATION.—C. H. FLORY, assistant district forester.

MAINTENANCE.—SHIRLEY BUCK.

SILVICULTURE.—F. E. AMES, assistant district forester; C. S. JUDD, assistant district forester; W. H. GIBBONS, investigation of logging costs; W. T. ANDREWS and C. H. WOODCOCK, logging engineers; EDWIN C. ERICKSON and L. A. NELSON, scalers.

PLANTING.—J. F. KÜMMEL and C. P. WILLIS, forest examiners.

FOREST INVESTIGATIONS.—T. T. MUNGER, forest examiner.

J. F. PERNOT, forest examiner, insect control.

GRAZING.—T. P. MACKENZIE, assistant district forester.

LANDS.—C. J. BUCK, assistant district forester; land classification, J. ROY HARVEY, forest examiner.

PRODUCTS.—H. B. OAKLEAF, in charge; W. J. Paeth, Portland; C. W. Zimmerman, Cornelius Barry, Seattle, Wash.

EXPERIMENT STATION.

Wind River, Columbia National Forest.—JULIUS V. HOFMANN, forest assistant, in charge, Carson, Wash.

NATIONAL FORESTS.

ALASKA.

Chugach.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU–AP, Am); Thomas M. Hunt, deputy forest supervisor; Bruce Hoffman, forest examiner.

Tongass.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU–AP, Am); Geo. L. Drake, forest examiner.

OREGON.

Cascade.—C. R. SEITZ, forest supervisor, Eugene (WU, P–WF); B. F. Heintzleman, deputy forest supervisor.

Crater.—M. L. ERICKSON, forest supervisor, Medford (WU, P–WF); E. H. MacDaniels, deputy forest supervisor; H. D. Foster, William E. White, forest examiners.

Deschutes.—MELVIN L. MERRITT, forest supervisor, Bend (WU, PT & T–GN); W. J. Sproat, forest assistant.

Fremont.—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev–P, WF); R. A. Bradley, deputy forest supervisor; Norman G. Jacobson, forest examiner.

Klamath.—See California.

Malheur.—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker–Am, WF via Baker); Carl B. Neal, forest assistant.

Minam.—EPHRAIM BARNES, forest supervisor, Baker (WU–Am).

Ochoco.—HOMER ROSS, forest supervisor, Prineville (WU, PT & T–Am); Allen Hodgson, deputy forest supervisor; F. S. Fuller, forest assistant.

Oregon.—T. H. SHERRARD, forest supervisor, Portland (WU, P–Am, WF, N); Ralph S. Shelley, deputy forest supervisor; W. B. Osborne, forest examiner.

Paulina.—Apportioned for administrative purposes to the Deschutes, the Fremont, and the Crater.

Santiam.—F. H. BRUNDAGE, forest supervisor, Albany (WU, P–WF); A. R. Wilcox, forest examiner.

Siskiyou.—N. F. MACDUFF, forest supervisor, Grants Pass (WU, P–WF); D. B. Reynolds, deputy forest supervisor; H. Haefner, forest examiner.

Siuslaw.—H. B. RANKIN, forest supervisor, Eugene (WU, P–WF); S. C. Beach, deputy forest supervisor; H. M. Johnson, forest examiner.

Umatilla.—W. W. CRYDER, forest supervisor, Heppner (WU, P–AM).

Umpqua.—S. C. BARTRUM, forest supervisor, Roseburg (WU, P–WF); George Bonebrake, deputy forest supervisor; A. F. Kerr, forest examiner; G. Y. Baker, forest assistant.

Wallowa.—H. W. HARRIS, forest supervisor, Wallowa (WU–Am); N. J. Billings, deputy forest supervisor; R. L. Hensel and E. H. Steffen, forest assistants.

Wenaha.—See Washington.

Whitman.—HENRY IRELAND, forest supervisor, Sumpter (WU via Baker-Am, WF via Baker); R. M. Evans, deputy forest supervisor; T. J. Starker, forest assistant.

WASHINGTON.

Chelan.—G. W. MILHAM, forest supervisor, Chelan (PT & T–Am, GN via Wenatchee).

Columbia.—A. E. COHOON, forest supervisor, Portland, Oreg. (WU, P–Am, WF, N); W. W. G. Hastings, deputy forest supervisor; L. Wernsted, forest examiner; C. P. Willis, forest examiner.

Colville.—C. C. REID, forest supervisor, Republic (WU, P–Am, GN); F. W. Cleator, deputy forest supervisor.

Okanogan.—H. M. HALE, forest supervisor, Okanogan (PT & T–Am, GN via Wenatchee); V. V. Harpham, deputy forest supervisor; A. W. Hodgman, forest assistant.

Olympic.—R. L. FROMME, forest supervisor, Olympia (WU, P–Am, GN, N); A. A. Parker, deputy forest supervisor; E. J. Hanzlik, forest assistant.

Rainier.—G. F. ALLEN, forest supervisor, Tacoma (WU, P–Am, N); P. T. Harris, deputy forest supervisor; E. J. Fenby, forest examiner.

Snoqualmie.—STANTON G. SMITH, forest supervisor, Seattle (WU, P–N, GN, WF); Lewis A. Treen, jr., deputy forest supervisor; Walter H. Leve and Alexander G. Jackson, forest examiners.

Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P–Am, GN, N).

Wenaha.—J. M. SCHMITZ, forest supervisor, Walla Walla (WU–Am, N); Geo. Bright, forest assistant.

Wenatchee.—A. H. SYLVESTER, forest supervisor, Leavenworth (WU–Am, GN).

DISTRICT 7.

Arkansas and Florida. Office, Atlantic Building, Washington, D. C.
H. O. STABLER, acting district forester.

NATIONAL FORESTS.

ARKANSAS.

Arkansas.—S. A. CHAPPELL, forest supervisor, Hot Springs (WU, P–WF, P); D. E. Fitten, deputy forest supervisor; C. J. Heller, forest examiner.

Ozark.—FRANCIS KIEFER, forest supervisor, Harrison (WU–WF); R. C. Huey, deputy forest supervisor; L. L. Janes and Robert S. Wallace, forest examiners.

FLORIDA.

Florida.—I. F. ELDREDGE, forest supervisor, Camp Pinchot, Garniers (WU, P); W. F. Hill, deputy forest supervisor.

BUREAU OF ENTOMOLOGY.

L. O. HOWARD, Chief.

BRANCH OF FOREST INSECT INVESTIGATIONS—A. D. HOPKINS, in charge.

FOREST INSECT FIELD STATIONS.

Northern Rocky Mountain Station, Missoula, Mont., for the States of Montana, Idaho, eastern Oregon, eastern Washington, Wyoming,

Nebraska, and South Dakota, north of the 42d parallel of latitude. Josef Brunner, in charge.

Southern Rocky Mountain Station, Colorado Springs, Colo., for the States of New Mexico, Arizona, Colorado, Utah, and Nevada. W. D. Edmonston, in charge.

Pacific Slope Station, Placerville, Cal., for the States of California, western Oregon, and western Washington west of about the 120th meridian. H. E. Burke, in charge.

Pacific Slope Substation, Ashland, Oreg., for the special investigation of insect enemies of forest-tree seeds. J. M. Miller, in charge.

Eastern Station, East Falls Church, Va., for the Eastern States. S. A. Rohwer, in charge.

SERVICE CHANGES.

APPOINTED.

ACQUISITION.—Beverly M. Higginbotham, examiner of surveys; Roy T. Reed, Dallas E. Edmonston, William H. Stoneburner, Arthur A. Wood, and James H. Young, assistant forest rangers.

LANDS.—Water power: Ralph R. Randell, junior engineer.

DISTRICT 1.—Operation: Assistant forest rangers—James P. Brown, Deerlodge; Albert H. Nee, Gallatin; clerks (stenographers and typewriters)—Margaret Blaine, Helena; Ellen P. Wing, Coeur d'Alene.

DISTRICT 2.—Lyle A. Whitsit, hydroelectrical engineer, district office.

DISTRICT 3.—Operation: William K. Blessing, clerk, Coronado.

DISTRICT 4.—Operation: Lavina A. Ririe, clerk (stenographer and typewriter), district office; Luella Christensen, clerk (typewriter), Manti.

DISTRICT 5.—Katherine M. Mathes and Anna E. Nolte, clerks (stenographers and typewriters), district office.

DISTRICT 6.—Operation: J. L. Peterson, assistant forest ranger, Wallowa.

PROMOTED IN RANK.

OPERATION.—Geography: Charles A. Kolb, draftsman to chief of geography.

DISTRICT 1.—Operation: E. A. Holcomb, deputy forest supervisor to forest supervisor, St. Joe; Meyer H. Wolff, deputy forest supervisor to forest supervisor, Coeur d'Alene; Donald Bruce, forest examiner, district office, to forest supervisor, Flathead. Lands: D. M. Conner, assistant forest ranger to national forest examiner, district office. Geography: George H. Lautz, topographic draftsman to surveyor draftsman; Charles F. Farmer, topographic draftsman to civil engineer, district office.

DISTRICT 2.—Operation: Alva A. Simpson, deputy forest supervisor to forest supervisor, Arapaho; James G. Cayton, assistant forest ranger to forest ranger, Battlement.

DISTRICT 3.—Operation: Charles H. Kissam, forest ranger to deputy forest supervisor, Sitgreaves; assistant forest rangers to forest rangers—Franklin R. Taylor, Crook; Lee R. York, Lincoln; Llewellyn J. Putsch, Manzano; David L. MacBeath, Coronado; Ralph E. King, Prescott.

DISTRICT 4.—Operation: John A. Ferguson, assistant forest ranger to forest ranger, Caribou.

DISTRICT 5.—Assistant forest rangers to forest rangers—Oliver H. McFlfresh, Angeles; Martin E. White, Shasta; Hosea L. Clark, Sierra; Aaron H. Walton, Tahoe; William A. Merrill, forest ranger to deputy forest supervisor, Tahoe; M. A. Benedict, deputy forest supervisor, Sierra, to forest supervisor, California.

DISTRICT 6.—Operation: Roland L. Cline, assistant forest ranger to forest ranger, Columbia; R. E. Kan Smith, forest ranger to forest examiner, Whitman.

DISTRICT 7.—Herbert O. Stabler, forest supervisor to assistant district forester.

CHANGE IN DESIGNATION.

ACQUISITION.—Forest examiners to national forest examiners—Elmer D. Fletcher, Verne Rhoades, Edward V. Clark, and Jacob L. Pritchard.

LANDS.—Land classification: Herbert E. Woolley, forest examiner to national forest examiner.

SILVICULTURE.—Forest investigations: Charles H. Shinn, forest examiner to national forest examiner.

PRODUCTS.—Laboratory: Chemical engineers in forest products to engineers in forest products—H. E. Surface and Sidney D. Wells, Rolf Thelen, chief, section of timber tests to engineer in forest products; assistant engineers in forest products to engineers in forest products—Clyde H. Teesdale and George C. McNaughton; A. K. Armstrong, engineer in timber tests to assistant engineer in forest products; Charles S. Gwinn, assistant chemical engineer in forest products to assistant engineer in forest products; assistant chemists in forest products to chemists in forest products—Robert C. Palmer and Fred W. Kressman; James Orr Bixby, assistant engineer to mechanical draftsman; Gertrude J. Griffin, computing clerk to assistant xylotomist.

DISTRICT 1.—Operation: Forest examiners to deputy forest supervisors—J. K. Dwinelle, James C. Whithan, W. W. Morris, and W. B. Willey; W. C. Latane, deputy forest supervisor to forest assistant; A. J. Feary, assistant forest ranger to forest ranger; forest examiners to national forest examiners—Charles L. Smith, John D. Jones, R. J. Moore, and Clarence B. Swim; Joseph B. Halm, deputy forest supervisor to topographic draftsman; Leslie F. Vinal, forest ranger to

scaler; assistant forest rangers to scalers—Louis H. Foote, George A. Hamilton, Eugene J. Jacroux, and Calvin A. Dahlgren.

DISTRICT 2.—Operation: Roy Smith, forest examiner to national forest examiner, district office.

DISTRICT 3.—Lands: Frederic Winn, forest examiner to national forest examiner; Morton M. Cheney, forest examiner to national forest examiner, district office. Operation: Howard B. Waha, deputy forest supervisor to national forest examiner, district office; Thomas R. Stewart, forest surveyor to forest ranger, Pecos.

DISTRICT 5.—Forest examiners to national forest examiners, district office—Ralph Hopping, S. N. Stoner, George Miller, P. L. Day, and Frederick H. Hafley; Edward S. Mainwaring, forest ranger to assistant forest ranger, Sierra.

DISTRICT 6.—Lands: J. Roy Harvey, forest examiner to national forest examiner, district office. Operation: B. Frank Heintzleman, forest examiner to deputy forest supervisor, Cascade; Ephraim Barnes, deputy forest supervisor to forest supervisor, Minam.

RESIGNED.

SILVICULTURE.—Forest Investigations: Forest assistants, Alfred Akerman and Royal S. Kellogg. State cooperation: Fred R. Fairchild, expert.

DISTRICT 1.—Operation: Forest supervisors—C. W. Hudson, Madison; and Page S. Bunker, Flathead; S. R. Hays, deputy forest supervisor, Gallatin; Herman H. Chapman, forest assistant, Flathead; E. A. Findell, forest ranger, Missoula; assistant forest rangers—Harry Holvorson, Nez Perce; Stephen A. Wallace, Deerlodge; Hamilton Richardson, Helena; S. J. Emswiler, Sioux; G. H. Hankinson, Lolo; Eunice E. Shearer, clerk (stenographer and typewriter), Clearwater. District office: Milton H. Slifer, topographic draftsman.

DISTRICT 2.—Operation: Rosemary Rhode, clerk, district office; G. P. Bard, forest supervisor, Arapaho; Bruno R. Kudlich, forest assistant, Arapaho; Philip A. Guibord, forest assistant, Superior; Ira T. Starbuck, forest ranger, Holy Cross; Fred S. Cuenin, assistant forest ranger, Cochetopa; Louis D. Miller, assistant forest ranger, San Isabel; Alfred C. Anderson, forest clerk, San Isabel; James F. Hubbell, forest clerk, Montezuma.

DISTRICT 3.—Operation: Assistant forest rangers—John H. Hinck, jr., Apache; John B. Wight, Crook; Daniel R. Carter and Arthur W. Sypher, Jemez; George R. Yorke, Tusayan; forest rangers—Waldemar E. Currlin, Coronado; George H. Birdno, Crook; William B. Bunton, Lawrence G. Haynes, and Robert F. Rhinehart, Datil; Ophelia M. Celaya, clerk (stenographer and typewriter), Coconino.

DISTRICT 4.—Operation: Edwin H. Clarke, forest supervisor, Wasatch; Edward C. Bagley, forest ranger, Fishlake; assistant forest

rangers—Lee Roy Tracht, Challis; Cyrus R. Hunter, Payette; Ralph W. Thompson, clerk, Targhee; Antoinette Landgraf, clerk (stenographer and typewriter), district office.

DISTRICT 5.—Clerks (stenographers and typewriters), district office—Harry Factor, Alma M. Flood, and Rosalie E. Westerfeld; Joseph C. La Plant, forest ranger, Angeles; Earle P. Sutton, assistant forest ranger, Eldorado; Ray H. Avery, clerk (stenographer and typewriter), Kern; Harry H. Chivington, forest ranger, Shasta; George W. Cavin, forest ranger, Sierra; Bruce P. Viles, assistant forest ranger, Trinity.

DISTRICT 6.—Law: Pearl Shrader, clerk (stenographer and typewriter), district office. District office: Philip H. Dater, hydroelectrical engineer. Products: Carroll W. Dunning, statistician, district office; O. P. M. Goss, engineer, Seattle laboratory. Operation: Wm. Raihtel, assistant forest ranger, Olympic; Jos. A. Harris, forest ranger, Wallowa.

DISTRICT 7.—R. E. Hopson, forest assistant, Arkansas; James D. Ruble, assistant forest ranger, Ozark.

DISMISSED.

Assistant forest rangers—Frank McClung and Armon E. Havens, Flathead, and William P. Lawson.

With deep regret, announcement is made of the death of Wm. M. Butler, clerk, Washington office, January 25, and of Supervisor William McCoy of the Minidoka National Forest, April 5.

SERVICE NOTES FOR APRIL.

These notes contain instructions and necessary information to forest officers, and will therefore be carefully read and kept on file for reference.

LAW.

OFFICE OF THE SOLICITOR.

Law Case in District 1—

T. D. Farrow, innocent timber trespass, Flathead National Forest, damage $42.50, settled March 10, 1914.

Law Cases in District 3—

On January 18 Jesus and Francisco Anacoma were arrested for stealing Government property from the Metcalf Ranger Station, Apache National Forest. At the hearing before the United States commissioner on January 23 the case was dismissed because of the youthfulness of the defendants, and they were turned over to the State authorities, who had them committed to the State reform school until they are 21 years of age.

On January 2 the grazing trespass case against A. G. Seis, Manzano National Forest, was settled by payment of $226, the full amount demanded.

On February 16 the timber trespass against the Tularosa Copper Co., Alamo National Forest, was settled by payment of $68.75, the full amount demanded.

The grazing trespass case against J. A. Gallegos, Carson National Forest, was compromised, and the sum of $50 was accepted in settlement.

On March 2, 1914, Thomas R. King pleaded guilty to an indictment charging him with the unlawful grazing of sheep on the Prescott National Forest. He was sentenced to pay a fine of $25.

Law Cases in District 4—

An indictment was returned by the Federal grand jury at Boise, Idaho, on February 6, charging Jacob Bear, a sheep herder, with starting a fire in the Boise National Forest and leaving it without having extinguished it. The case was set for trial on or about March 27.

In the case of United States *v.* Utah Power & Light Co. a motion for rehearing before the United States Circuit Court of Appeals was denied, which will result in the case being returned to the district court for further proceedings in accordance with the decision.

The Attorney General has filed a petition of intervention in a case brought by the Boise Lumber Co. against the Oregon Short Line and the Pacific & Idaho Northern Railroad Co., asking the Interstate Commerce Commission to reduce freight rates on logs from points in the Payette and Weiser National Forests into Boise, Idaho. A petition of intervention has also been filed by the State of Idaho on behalf of the public utilities commission of that State and also on behalf of the State board of land commissioners, the State being the owner of a considerable body of standing timber which would be affected by the rates. The hearing is set for about June 15, 1914, at Boise, Idaho.

Law Cases in District 5—

A timber trespass of the Verdi Lumber Co., on the Tahoe National Forest, was settled by the payment of $318.60.

A timber trespass of the Swayne Lumber Co., on the Plumas National Forest, was settled by payment of $303.88.

Payment in full in the sum of $111.48 was made in settlement of a timber trespass of J. J. Potter on the Modoc National Forest.

R. M. Diggs settled two grazing trespass cases by the payment of the respective sums of $68.75 damages and $9.50 costs and $47.12 damages and $23.35 costs. A decree of perpetual injunction was also entered in both cases by consent of the defendant.

Do Ohtart and L. Lopeteguy settled their grazing trespass, on the Kern National Forest, by the payment of actual damages in the sum of $12.34. These parties previously plead guilty to a criminal charge in the same trespass and were fined.

Settlement for grazing trespass on the Mono National Forest, in amount $86.40, was made by F. W. Simpson.

Settlement for grazing trespass on the Mono National Forest, in amount $82.80, was made by C. E. Wedertz.

Law Case in District 6—

On February 4, 1914, the Circuit Court of Appeals for the Ninth District reversed the decision of Judge Wolverton in the case of the United States *v.* E. J. Cowlishaw et al., and held that in this case the State of Oregon took title to the school section involved, which was embraced in national forest withdrawal subsequent to the survey in the field and approval thereof by the surveyor general for Oregon, but prior to the acceptance of the survey by the Commissioner of the General Land Office, Judge Gilbert dissenting. The decision was not based upon the nature of the grant, but it held that a sufficient survey had been made at the time of the withdrawal to except it therefrom and vest title in the State. Appeal is now being prepared to the Supreme Court of the United States.

OPERATION.

Perpetuation of Dilapidated Land Office Corners—

Reference is made to an erroneous statement concerning the restoration of lost or obliterated corners appearing on page 93 of the Field Program of January, 1913.

Restoration by Authorized Officials Only.—No Land Office corner can be legally restored (in a manner which will be recognized by the General Land Office) by any person who is not formally instructed to do the work by the United States surveyor general for that State.

Tampering with Corners a Penal Offense.—To aid in the protection of all evidence of public-land surveys, a clause was enacted in chapter 398, 29 United States Statutes, page 343, prohibiting the destruction or removal of monuments of any United States survey, and fixing penalties for violation.

This clause was amended by section 57 of the act approved March 4, 1909, revising and amending the penal laws of the United States, to read as follows:

> SEC. 57. Whoever shall willfully destroy, deface, change, or remove to another place any section corner, quarter-section corner, or meander post, on any Government line of survey, or shall willfully deface, change, or remove any monument or bench mark of any Government survey, shall be fined not more than two hundred and fifty dollars, or imprisoned not more than six months, or both.

Actions to be Avoided by Forest Officers.—Forest officers are instructed not to attempt to "restore" Land Office corners, or to remark their locations by using a combination of materials and markings which may be mistaken for the work of the Land Office, except when they work under formal instructions from a surveyor general.

They should not build up dilapidated corners with stones bearing notches or grooves, or the numerals 1/4, or dig pits, or scribe blazed trees or posts at or near the location of a Land Office corner. The practice of setting stones marked with notches, grooves, or 1/4, and the additional letters F S is specifically prohibited.

In retracing Land Office lines care should be taken not to disturb the condition in which corners are found, since such action may destroy all evidence by which the corner can be absolutely identified. Let the marked stone or stake lie just where it is found. Do not use the stones at the corner to build a new mound, as the marked stone described in the official record may unwittingly be removed from its proper location or other evidence of the true point for corner destroyed. If needed to pile around a stake or marked stone, bring stones from another locality.

How to Perpetuate Dilapidated Corners.—It is highly desirable, however, that the exact location of Land Office corners found in a dilapidated condition should be perpetuated. For this purpose the metal Forest Service cruising poster should be employed. It should be nailed to a post, either driven in the ground or set in a pile of stones. The location should be as near to the true point for corner as may be

determined. The poster may also be nailed on witness trees, but unless the tree itself is the point for corner the poster should have the word "Witness" scratched upon it in addition to the proper marking to show the location of the corner in the survey system.

Stone Monuments May be Used on Forest Boundaries Only.—It is not intended to prevent entirely the use of stone, which is the most durable and convenient material for marking forest boundaries.

At any mile or half mile on a boundary a single large stone monument may be erected, care being taken not to damage or cover up existing Land Office corners. At mile points the section numbers should be cut, *in Arabic figures only,* on the four sides of the main stone, facing the corresponding sections. At half-mile points the *Arabic* numbers of the two opposite sections should be cut on the sides of the stone facing them, and in addition the words "Half Mile." On both kinds of monuments the letters F S should always be cut on top. The marked stone should be in the mound, and not set with a separate mound of stone or earth, as is the Land Office practice.

No witness trees should be scribed, the cruising poster being nailed on the blazes instead, when it is desired to construct and record witnesses for the boundary monuments in unsurveyed lands or draw attention to bearing trees of the Land Office on which the scribing is illegible or grown over or erased. Care must be taken in blazing not to destroy Land Office scribing which may have become grown over with bark.

Previous Instructions for Surveys not Modified.—Nothing in this statement should be understood as modifying any previous instructions for Settlement or Entry Surveys.

LANDS.

Settlement—

March 14, 1914, the Assistant Secretary of the Interior, in the case of Robert G. McDougall, on appeal, final proof submitted on a June 11 entry in the Jemez National Forest, held that credit may be accorded for residence for the full period after the date of the special-use permit and revoked former decisions and instructions to the contrary. The decision says:

> Technically this land was not public land, and was not subject to general settlement claim at the time this entryman made settlement thereon, but he was not a trespasser, as he had filed his application for listing with the Forest Service for opening under the said act of June 11, 1906, and had been given a special-use permit by that service. He was, therefore, in legal occupation of the land after the date of the permit, with the understanding that if the tract be found appropriate for opening under said act, he would have a preference right of entry, as provided by that act. He thus had a restricted or qualified settlement claim. If it had resulted that his application for listing could not be allowed, then, of course, his settlement could not have ripened into a claim for title. But the land was opened upon his application, he was accorded preference right of entry, and he made entry, all in pur-

suance of the claim initiated by his application. No good reason is seen why credit for residence for the full period after the date of the permit may not be accorded under such circumstances.

ACCOUNTS.

Bill of Lading—Appropriation to be Indicated—

In the field program for April, 1912, and subsequently by circular letter of the Forester, all forest officers making shipment on bills of lading were requested to see that the appropriation chargeable was properly indicated on the original bill of lading, Form L, delivered to the transportation company, as well as on the Form M sent to the district fiscal agent.

These instructions have been overlooked in many cases, and forest officers are again requested to give the matter attention, as it is of importance in the settlement of transportation accounts in the Washington office.

SERVICE PUBLICATIONS ISSUED.

Department Bulletin 11.—Forest Management of Loblolly Pine in Delaware, Maryland, and Virginia.

Department Bulletin 13.—White Pine under Forest Management.

Department Bulletin 55.—Balsam Fir.

Department Bulletin 67.—Tests of Rocky Mountain Woods for Telephone Poles.

Department Bulletin 86.—Tests of Wooden Barrels.

Unnumbered Pub.—Forest Fire Protection by the States.

Unnumbered Pub.—Forest Tree Diseases Common in California and Nevada.

Unnumbered Pub.—Information Regarding Employment on the National Forests. (Sixth revision.)

Folder for Routt National Forest.

CUMULATIVE INDEX TO SERVICE NOTES AND ORDERS.

(JULY, 1913–APRIL, 1914.)

[Numbers in parentheses after the month indicate page.]

Annual property return; January (90).
Appointed chief clerk of the Department of the Interior; July (28).
Bill of lading—Appropriation to be indicated; April (121).
Classification of grazing permittees; January (92).
Color tints and crayons; July (27).
Conference at Salt Lake City; October (59).
Cooperation in securing commercial and botanical range data; July (28).
Crayons and color tints; July (27).
Excepted strips; January (92).

Fire trespass. (*See* Trespass, fire.)
Form 411.—Report of Description of Horses, Mules, and Burros; January (91).
Grazing trespass. (*See* Trespass, grazing.)
Law cases in district 1; July (24); January (87); April (117).
2; July (25); October (59); January (87–88).
3; July (26); January (88); April (117–118).
4; July (27); January (88–89); April (118).
5; October (61); January (90); April (118–119).
6; July (27); January (90); April (119).
Occupancy trespass. (*See* Trespass, occupancy.)
Parcel post; January (91).
Perpetuation of dilapidated Land Office corners; April (119).
Record of Land Office corners; January (91).
Right of way—Former procedure restored; October (62).
Settlement; April (121).
Telephone lines; January (92).
Timber trespass. (*See* Trespass, timber.)
Trespass cases, fire, district 1; July (24).
2; July (25); October (60–61); January (88).
3; July (26).
4; April (118).
5; October (61–62); January (90).
6; July (27); January (90).
grazing, district 1; July (25); January (87).
2; July (25); October (61); January (88).
3; July (26); January (88); April (118).
4; July (27); January (89–90).
5; January (90); April (118–119).
6; January (90).
occupancy, district 1; January (87).
2; January (87–88).
3; July (26).
4; July (27); January (88–89); April (118).
5; January (90).
timber, district 1; July (24); April (117).
2; October (61); January (88).
3; July (26); January (88); April (118).
4; January (89).
5; October (61); January (90); April (118).
6; January (90).

O

Mulford

Issued July 15, 1914.

UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.

HENRY S. GRAVES, Forester.

July Field Program, 1914.

This program of field work and assignments in the Forest Service is issued quarterly on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

OFFICE OF THE FORESTER.

HENRY S. GRAVES, Forester.
ALBERT F. POTTER, Associate Forester.

HERBERT A. SMITH, editor; BRISTOW ADAMS, in charge of information.
FINDLEY BURNS, in charge of technical review.
Educational cooperation, DON CARLOS ELLIS.
Proofs and forms, CLAUDE M. BALLARD.
GEORGE B. SUDWORTH, dendrologist.
EUGENE S. BRUCE, expert lumberman.

ACCOUNTS.

M. E. FAGAN, chief.

OPERATION.

JAMES B. ADAMS, assistant forester, in charge; D. D. BRONSON, forest inspector; ALLEN S. PECK, forest inspector; GEORGE G. ANDERSON, administrative assistant.

GEOGRAPHY.—C. A. KOLB, chief.

ATLAS.—G. B. BRUCE.

DRAFTING.—J. M. WITHEROW.

PHOTOGRAPHY.—E. S. SHIPP.

ALIENATION.—J. B. SATTERLEE, J. E. BURCH.

MAINTENANCE.—GEORGE A. BENTLEY, chief.

SUPPLIES.—S. L. MCLAURIN, property clerk.

SILVICULTURE.

W. B. GREELEY, assistant forester, in charge; EARLE H. CLAPP, forest inspector; R. Y. STUART, forest inspector; AUSTIN CARY, logging engineer; HARRY IRION, office assistant. FRANKLIN H. SMITH, statistician in forest products, special detail, 501 Federal Building, Chicago, Ill.

STATE COOPERATION.—J. G. PETERS, chief.

Inspection.—L. S. Murphy, J. H. Foster.

Compilation of State forest laws.—Miss J. S. Peyton.

Collaborators, State cooperative fire protection under the Weeks law.—B. S. Viles, land agent and forest commissioner, Augusta, Me.; E. C. Hirst, State forester, Concord, N. H.; F. H. Billard, forester, New Hampshire Timberland Owners' Association, Berlin, N. H.; A. F. Hawes, State forester, Burlington, Vt.; F. W. Rane, State forester, Boston, Mass.; W. O. Filley, State forester, New Haven, Conn.; W. G. Howard, assistant superintendent of forests, Albany, N. Y.; C. P. Wilber, State fire warden, Trenton, N. J.; F. W. Besley, State forester, Baltimore, Md.; J. A. Viquesney, forest, game, and fish warden, Belington, W. Va.; J. E. Barton, State forester, Frankfort, Ky.; M. Schaaf, State forester, Roscommon, Mich.; E. M. Griffith, State forester, Madison, Wis.; Wm. T. Cox, State forester, St. Paul, Minn.; G. W. Roskie, State forester, Custer, S. Dak.; J. C. Van Hook, State forester, Helena, Mont.; G. A. Day, State land commissioner, Boise, Idaho; F. A. Elliott, State forester, Salem, Oreg.; E. W. Ferris, State forester and fire warden, Olympia, Wash.

Study of forest conditions in North Carolina in cooperation with State Geological and Economic Survey.—J. S. Holmes, Chapel Hill.

FOREST INVESTIGATIONS.—RAPHAEL ZON, chief; S. T. DANA, assistant chief.

Studies.—E. H. Frothingham, W. D. Sterrett, C. R. Tillotson, G. N. Lamb, W. R. Mattoon, G. E. Clement, C. H. Shinn.

FOREST DISTRIBUTION.—W. H. LAMB, in charge; Miss G. E. Wharton.

COMPUTING.—W. B. BARROWS.

LIBRARY.—Miss H. E. STOCKBRIDGE.

COMPILATION.—GEO. DE S. CANAVARRO; Miss E. B. Leech.

Cloquet Experiment Station in cooperation with the University of Minnesota.—W. H. Kenety, Cloquet, Minn.

COOPERATION WITH PRIVATE TIMBERLAND OWNERS.—E. S. BRYANT, chief.

GRAZING.

A. F. POTTER, associate forester, in charge; L. F. KNEIPP, assistant forester; WILL C. BARNES, inspector of grazing.

GRAZING STUDIES (in cooperation with F. V. Coville, botanist, Bureau of Plant Industry).—James T. Jardine, inspector of grazing, in charge, and Alfred E. Aldous, grazing examiner, Washington, D. C.

Forage investigations.—William A. Dayton, plant ecologist, Washington, D. C.

William R. Chapline, grazing assistant, Ephraim, Utah.

LANDS.

JAMES B. ADAMS, assistant forester, in charge; W. J. MANGAN, examiner.

LAND CLASSIFICATION.—E. A. SHERMAN, in charge.

SETTLEMENT.—F. L. HARVEY, in charge.

ENTRY SURVEYS.—ROBERT V. R. REYNOLDS, in charge.

BOUNDARIES.—ROBERT V. R. REYNOLDS, in charge.

WATER POWER.—O. C. MERRILL, chief engineer; T. W. NORCROSS, assistant chief engineer; R. R. RANDELL, junior engineer.

CLAIMS AND OCCUPANCY.—CHARLES H. SQUIRE, in charge.

PRODUCTS.

W. B. GREELEY, assistant forester, in charge.

FOREST PRODUCTS LABORATORY (in cooperation with the University of Wisconsin, Madison, Wis.).—HOWARD F. WEISS, director.

H. S. BETTS and CARLILE P. WINSLOW, administrative assistants.

ADVISORY BOARD.—Dr. W. K. Hatt, mechanical and civil engineer, Purdue University; Prof. Charles F. Burgess, chemical engineer; Dr. L. R. Ingersoll, professor of physics, University of Wisconsin; Prof. I. W. Bailey, forestry school, Harvard University.

Design of laboratory equipment.—ROLF THELEN.

Review of results.—FRANK J. HALLAUER.

DERIVED PRODUCTS.—ERNEST BATEMAN, acting in charge; A. W. Schorger, F. W. Kressman, R. C. Palmer, Homer Cloukey, Lester E. Cover.

ENGINEERING.—A. L. HEIM, in charge; James O. Bixby, O. M. Sutherland, Harry N. Knowlton.

MAINTENANCE.—CHAS. P. JUCKEM, in charge.

PULP AND PAPER.—O. L. E. WEBER, in charge; H. E. Surface, Sidney D. Wells, G. C. McNaughton, Sidney E. Lunak, Clinton K. Texter.

TIMBER PHYSICS.—H. D. TIEMANN, in charge; Eloise Gerry, N. de W. Betts, M. E. Diemer, James E. Imrie, A. Koehler.

TIMBER TESTS.—JOHN A. NEWLIN, in charge; A. K. Armstrong, Thomas R. C. Wilson, Lorraine J. Markwardt.

WOOD PRESERVATION.—CLYDE H. TEESDALE, in charge; Geo. E. Hunt, James D. MacLean, Robt. E. Prince, E. C. Sparver.

PATHOLOGY (in cooperation with the Bureau of Plant Industry).—C. J. HUMPHREY, in charge; Ruth E. Fleming.

INDUSTRIAL INVESTIGATIONS.—O. T. SWAN, in charge, Washington, D. C. Factory Waste and Woodlot Utilization, R. E. Simmons and R. K. Helphenstine, jr., Washington, D. C. Production of Lumber and Forest Products (in cooperation with the Bureau of Statistics, the Bureau of the Census, and lumber manufacturers' associations), A. H. Pierson, Washington, D. C. Blighted Chestnut Utilization Studies, Jesse C. Nellis, Washington, D. C. Veneer Investigations, S. L. Wolfe, Washington, D. C. Slack-cooperage Investigations, O. T. Swan, Washington, D. C. Tight-cooperage Investigations, John T. Harris, Washington, D. C. Departmental Cooperation, Inspection, and Revision of Government Specifications, R. E. Simmons, Washington, D. C. Box Industry Investigations, Jesse C. Nellis, Washington, D. C. Furniture Industry Investigations (Chicago office, Silviculture), Franklin H. Smith, Chicago, Ill. Study of Commercial Southern Yellow Pine to Determine Improved Grading and Inspection Systems (in cooperation with yellow pine associations), W. D. Brush, C. W. Gould, David G. White, Jacksonville, Fla. Utilization Study of Insect Infested Oak (in cooperation with Bureau of Entomology), J. C. Nellis, Winchendon, Mass. Collaborators, Hu Maxwell, Chicago, Ill.; A. B. Strough, Albany, N. Y.

ACQUISITION OF LANDS UNDER THE WEEKS LAW.

WM. L. HALL, assistant forester in charge, Washington, D. C.

LUMBERMAN'S EXAMINATIONS.—E. D. Fletcher, Gorham, N. H.; C. D. Cushing and George E. Marshall, Washington, D. C.

RECONNAISSANCE.—R. C. Hall, Verne Rhoades, P. T. Coolidge, E. M. Bruner, forest examiners, Washington, D. C.

EXAMINATION OF LANDS.—W. W. ASHE, forest inspector in charge, Washington, D. C. White Mountain Area, D. W. Martin, forest examiner in charge of party, Gorham, N. H. Natural Bridge Area, E. L. Lindsey, forest assistant in charge of party, Natural Bridge, Va. White Top Area, H. M. Sears, forest assistant in charge of party,

Abingdon, Va. Unaka Area, J. L. Cobbs, jr., forest examiner in charge of party, Johnson City, Tenn. Savannah Area, H. G. Spahr, forest examiner, Clayton, Ga. Cherokee Area, S. H. Thompson, forest examiner in charge of party, Etowah, Tenn. Alabama Area, C. E. Beaumont, forest examiner, Haleyville, Ala.

SURVEY OF LANDS.—RUDOLPH DIFFENBACH, forest examiner, in charge; Robt. G. Merritt, forest examiner; E. P. Whitten, examiner of surveys; White Mountain Area, Arthur E. Hoxie, Frederick A. Gardner, and Leon C. Marshall, examiners of surveys, Gorham, N. H.; Potomac Area, A. M. Ockerblad and E. L. Merrill, examiners of surveys, Woodstock, Va.; Unaka Area, E. F. Benedum, examiner of surveys, Johnson City, Tenn.; White Top Area, E. R. Conrad, examiner of surveys, Abingdon, Va.; Mount Mitchell Area, Dave M. Gibson and Thos. A. Cox, jr., examiners of surveys, Marion, N. C.; Nantahala Area, Percy B. Ferebee, transitman in charge, Andrews, N. C.; Pisgah Area, James Denman, examiner of surveys, and Jacob L. Pritchard, national forest examiner, Pisgah Forest, N. C.; Savannah Area, Wm. N. Sloan, Samuel L. Chiles, and Harold G. Wood, examiners of surveys, Highlands, N. C.; Cherokee Area, A. J. Bohn, examiner of surveys, and J. W. Fox, transitman in charge, Etowah, Tenn.; Monongahela Area, Marvin L. Taylor, examiner of surveys, Elkins, W. Va.; Shenandoah Area, C. F. Muzzey, examiner of surveys, Harrisonburg, Va.; Natural Bridge Area, Beverly M. Higginbotham and Robert E. Witt, examiners of surveys, Natural Bridge, Va.

LAW.—A. H. MCCONVILLE, assistant to solicitor, in charge, Washington, D. C. Record examiners, George E. Taylor, James H. Swan, and E. W. R. Ewing, Bristol, Tenn.; Alfred S. Grigg, Johnson City, Tenn.; Julius Fletcher, Franklin, N. C.; Collin H. Harding, Marion, N. C.; Charles E. Jones, Walhalla, S. C.; Cameron F. McRae, Clayton, Ga.; John M. Burns and John Awtrey, Blue Ridge, Ga.; M. B. Stickley, Staunton, Va.; W. L. Newman and M. E. Stickley, Woodstock, Va.; Frederick Goshorn, Moorefield, W. Va.; H. A. Lamprey, Woodsville, N. H.

DISTRICT 1.

Montana, northeastern Washington, northern Idaho, northwestern South Dakota, and southwestern North Dakota. Office, Federal Building, Missoula, Mont.

F. A. SILCOX, district forester; E. W. KRAMER, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). D. F. MCGOWAN, assistant to the solicitor, in charge; A. W. HERGER, assistant to the solicitor.

ACCOUNTS.—JOHN A. URBANOWICZ, district fiscal agent.

OPERATION.—J. F. PRESTON, assistant district forester; R. B. ADAMS, superintendent of telephone construction.

MAINTENANCE.—GARDNER I. PORTER.

SILVICULTURE.—D. T. MASON, assistant district forester; DORR SKEELS and H. F. ELLARD, logging engineers.

TIMBER SALES.—A. B. HASTINGS and C. M. STEVENS.

PLANTING.—H. H. FARQUHAR and E. F. WHITE.

S. S. J. MALVEN, insect control.

JAMES R. WEIR, consulting pathologist, Missoula, Mont.

GRAZING.—C. H. ADAMS, assistant district forester.

STUDIES.—CHAS. E. FLEMING, grazing examiner.

LANDS.—R. H. RUTLEDGE, assistant district forester; JOHN D. JONES, assistant.

CLAIMS.—P. J. O'BRIEN.

SETTLEMENT.—J. W. STREIT.

LAND CLASSIFICATION.—C. B. SWIM, assistant.

PRODUCTS.—P. R. HICKS.

EXPERIMENT STATION.

Priest River, Kanisksu National Forest.—DONALD R. BREWSTER, in charge, Priest River, Idaho.

NATIONAL FORESTS.

IDAHO.

Clearwater.—CHARLES A. FISHER, forest supervisor, Orofino (WU–Am).

Coeur d'Alene.—MEYER H. WOLFF, forest supervisor, Coeur d'Alene (WU–Am); W. W. Morris, F. I. Rockwell, and Richard C. Eggleston, forest examiners.

Kaniksu.—See Washington.

Nezperce.—GEORGE V. RING, forest supervisor, Grangeville (WU–Am); J. Arthur Brown, deputy forest supervisor.

Pend Oreille.—J. A. FITZWATER, forest supervisor, Sandpoint (WU–Am, N, W); R. Trevor Ferguson, deputy forest supervisor.

Selway.—FRANK A. FENN, forest supervisor, Kooskia (WU–N); Charles F. Howell, deputy forest supervisor.

St. Joe.—EDWARD A. HOLCOMB, forest supervisor, St. Maries (Continental–WF); Wilford B. Willey, deputy forest supervisor.

MONTANA.

Absaroka.—JOSEPH D. WARNER, forest supervisor, Livingston (WU–Am, N).

Beartooth.—GLEN A. SMITH, forest supervisor, Billings (WU–Am, N); J. C. Whitham, deputy forest supervisor.

Beaverhead.—C. K. WYMAN, forest supervisor, Dillon (WU–Am); John E. David, deputy forest supervisor.

Bitterroot.—W. W. WHITE, forest supervisor, Missoula (WU–Am, N).

Blackfeet.—R. P. MCLAUGHLIN, forest supervisor, Kalispell (WU–Am, GN).

Cabinet.—CLAUDE W. GRIFFIN, forest supervisor, Thompson Falls (WU–Am, N).

Custer.—GEORGE E. MARTIN, forest supervisor, Miles City (WU–Am, N).

Deerlodge.—LEWIS C. STOCKDALE, forest supervisor, Anaconda (P–Am, N); C. N. Whitney, C. R. Clark, and J. C. Whitham, forest examiners.

Flathead.—DONALD BRUCE, forest supervisor, Kalispell (WU–Am, GN); John H. Clack, deputy forest supervisor.

Gallatin.—ARTHUR H. ABBOTT, acting forest supervisor, Bozeman (WU–Am, N).

Helena.—J. B. SEELY, forest supervisor, Helena (WU–Am, N).

Jefferson.—SCOTT LEAVITT, forest supervisor, Great Falls (WU–Am, N); Wellman Holbrook, deputy forest supervisor.

Kootenai.—WILLIAM A. RAYMOND, acting forest supervisor, Libby (WU–Am, GN); Justin K. Dwinelle, deputy forest supervisor; Webster H. Ransom and John C. Ketridge, forest examiners.

Lewis and Clark.—THOMAS C. SPAULDING, forest supervisor, Chouteau (WU–Am, GN).

Lolo.—ELERS KOCH, forest supervisor, Missoula (WU, P–Am, N); John E. Keach, forest examiner; William W. Bennett, deputy forest supervisor.

Madison.—ROSCOE G. WILLSON, forest supervisor, Sheridan (WU–Am, N); Ralph E. Bodley, deputy forest supervisor.

Missoula.—RUTLEDGE PARKER, forest supervisor, Missoula (WU, P–Am, N); Fay G. Clark, deputy forest supervisor.

Sioux.—See South Dakota.

NORTH DAKOTA.

Dakota.—C. A. BALLINGER, forest supervisor, Camp Crook, S. Dak. (WU via Bellefourche–Am via Bellefourche).

SOUTH DAKOTA.

Sioux.—C. A. BALLINGER, forest supervisor, Camp Crook (WU via Bellefourche–Am via Bellefourche).

WASHINGTON.

Kaniksu.—M. N. STICKNEY, forest supervisor, Coolin, Idaho (WU via Priest River–Am, GN, via Priest River); J. F. Forsythe, deputy forest supervisor.

DISTRICT 2.

Colorado, Wyoming, South Dakota, Nebraska, western Kansas, northern Michigan, and northern Minnesota. Office, Majestic Building, Denver, Colo.

SMITH RILEY, district forester; LYLE A. WHITSIT, hydroelectrical engineer; T. W. VENEMANN, information.

LAW.—Office of the Solicitor (Forest Service branch). GEORGE E. TROWBRIDGE, assistant to the solicitor, in charge.

ACCOUNTS.—H. I. LOVING, district fiscal agent.

OPERATION.—FRED W. MORRELL, assistant district forester.

MAINTENANCE.—F. H. CARROLL.

SILVICULTURE.—C. M. GRANGER, assistant district forester; J. H. POTTS, forest examiner; EARL C. TANNER, lumberman.

PLANTING.—SEWARD D. SMITH.

FOREST INVESTIGATIONS.—C. G. BATES.

GRAZING.—J. W. NELSON, assistant district forester.

STUDIES.—LYNN H. DOUGLAS, grazing examiner.

LANDS.—C. J. STAHL, assistant district forester; THOS. M. MOORMAN, assistant; RESS PHILIPS, land classification.

EXPERIMENT STATIONS.

Fremont, Pike National Forest.—F. B. NOTESTEIN, Manitou, Colo.

Wagon Wheel Gap, Rio Grande National Forest.—HOWARD R. FLINT, Wagon Wheel Gap, Colo., and Thomas A. Blair, of the Weather Bureau.

NATIONAL FORESTS.

COLORADO.

Arapaho.—ALVA A. SIMPSON, forest supervisor, Fraser (WU–Ad); Arthur T. Upson, forest examiner.

Battlement.—JOHN W. LOWELL, jr., forest supervisor, Collbran (WU–WF, G); John W. Spencer, forest examiner.

Cochetopa.—EUGENE WILLIAMS, forest supervisor, Saguache (WU–G); Charles P. Bliss, forest examiner.

Colorado.—H. N. WHEELER, forest supervisor, Fort Collins (WU–WF); Huber C. Hilton, forest examiner.

Durango.—ERNEST W. SHAW, forest supervisor, Durango (WU–G); R. S. Wheeler, forest examiner.

Gunnison.—WILLIAM R. KREUTZER, forest supervisor, Gunnison (WU–WF, G).

Hayden.—See Wyoming.

Holy Cross.—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU–WF, G).

La Sal.—See Utah, District 4.

Leadville.—R. E. CLARK, forest supervisor, Leadville (WU, P–WF, G); J. E. Martin, forest examiner.

Montezuma.—GORDON PARKER, acting forest supervisor, Mancos (WU–G).

Pike.—THEO. SHOEMAKER, forest supervisor, Denver (WU, P–Ad, Am, G, US, WF); W. I. Hutchinson, forest examiner; Monument Nursery, W. H. Schrader, forest planting assistant, in charge, Monument.

Rio Grande.—A. L. SWEITZER, forest supervisor, Monte Vista (WU–G); Walter F. Bowers, deputy forest supervisor; Jay Higgins, forest examiner.

Routt.—J. H. RATLIFF, forest supervisor, Steamboat Springs (WU–Ad); Ray Peck, deputy forest supervisor.

San Isabel.—J. N. LANGWORTHY, forest supervisor, Westcliffe (WU–G); Albin G. Hamel, forest examiner.

San Juan.—H. EARL FRENCH, forest supervisor, Pagosa Springs (WU–G); A. F. C. Hoffman, forest examiner.

Sopris.—JOHN MCLAREN, forest supervisor, Aspen (WU–WF, G); W. G. Baxter, forest examiner.

Uncompahgre.—HOWARD S. BUSHNELL, forest supervisor, Delta (WU–G).

White River.—JAMES A. BLAIR, forest supervisor, Meeker (WU–WF, G); Crosby A. Hoar, forest examiner.

KANSAS.

Kansas.—B. R. H. D'ALLEMAND, forest supervisor, Garden City (WU, P–WF); Garden City Nursery.

MICHIGAN.

Marquette.
Michigan. } —W. B. PIPER, forest supervisor, East Tawas (WU–Am).

MINNESOTA.

Minnesota.—G. E. MARSHALL, forest supervisor, Cass Lake (WU–Am, GN).

Superior.—LESLIE BROWNELL, forest supervisor, Ely (WU–GN).

NEBRASKA.

Nebraska.—FRED R. JOHNSON, forest supervisor, Halsey (WU–Ad); Halsey Nursey, Theodore Krueger, forest assistant, in charge.

SOUTH DAKOTA.

Black Hills.—PAUL D. KELLETER, forest supervisor, Deadwood (WU–Ad, Am); William Wiehe, deputy forest supervisor; Percy T. Smith, forest examiner.

Harney.—R. P. IMES, forest supervisor, Custer (WU–Ad).

WYOMING.

Bighorn.—E. N. KAVANAGH, forest supervisor, Sheridan (WU–Ad); Andrew G. Stockwell, deputy forest supervisor; Earl S. Peirce, forest examiner.

Bonneville.—L. E. COOPER, forest supervisor, Dubois (WU–Am); Myron W. Thompson, forest examiner.

Bridger.—H. C. HALL, forest supervisor, Pinedale (WU–Am).

Hayden.—JAMES BLACKHALL, forest supervisor, Encampment (WU, P–Am); P. J. Paxton, forest examiner.

Medicine Bow.—GEO. A. DUTHIE, forest supervisor, Laramie (WU, P–Am); D. S. Jeffers, deputy forest supervisor.

Shoshone.—R. W. ALLEN, forest supervisor, Cody (WU–Ad); Fred B. Agee, deputy forest supervisor.

Sundance.—PAUL D. KELLETER, forest supervisor, Deadwood, S. Dak. (WU–Ad, Am).

Washakie.—C. G. POOLE, forest supervisor, Lander (WU–Am).

DISTRICT 3.

Arizona and New Mexico. Office, Luna-Otero Building, Albuquerque, N. Mex.

A. C. RINGLAND, district forester; LYLE A. WHITSIT, hydroelectrical engineer.

LAW.—Office of the Solicitor (Forest Service branch). J. O. SETH, assistant to the solicitor, in charge.

ACCOUNTS.—ALBERT MORRIS, district fiscal agent.

OPERATION.—A. O. WAHA, assistant district forester; PAUL P. PITCHLYNN, geography; O. N. POWELL, highway engineer; HOWARD B. WAHA, national forest examiner—road construction.

MAINTENANCE.—H. B. HAMMOND.

SILVICULTURE.—T. S. WOOLSEY, Jr., assistant district forester; JOSEPH C. KIRCHER, forest examiner; ATHOL A. WYNNE, lumberman; QUINCY RANDLES, forest examiner.

GRAZING.—JOHN KERR, assistant district forester.

STUDIES.—R. R. HILL, grazing examiner; ARTHUR D. READ, forest examiner.

LANDS.—FRANK C. W. POOLER, assistant district forester; M. M. CHENEY, national forester examiner. Classification: FREDERIC WINN, national forest examiner; FRANK E. ANDREWS, national forest examiner; REX KING, forest examiner. Entry surveys: W. H. FINIGAN, surveyor, Carson; W. G. TURLEY, surveyor, Coconino; R. P. A. JOHNSON, surveyor, Carson.

EXPERIMENT STATION.

Fort Valley, Coconino National Forest.—G. A. PEARSON, in charge, Flagstaff, Ariz.

NATIONAL FORESTS.

ARIZONA.

Apache.—JOHN D. GUTHRIE, forest supervisor, Springerville (WU, P–WF); Clifford W. McKibbin, forest examiner.

Chiricahua.—A. H. ZACHAU, forest supervisor, Portal, via Rodeo, N. Mex. (WU–WF).

Coconino.—WILLARD M. DRAKE, forest supervisor, Flagstaff (WU, P–WF); Thomas E. McCullough, Gordon T. Backus, and H. D. Burrall, forest examiners.

Coronado.—ROBERT J. SELKIRK, forest supervisor, Tucson (WU–WF).

Crook.—T. T. SWIFT, forest supervisor, Safford (WU–WF).

Prescott.—C. H. HINDERER, forest supervisor, Prescott (WU–WF); J. C. McNelty, deputy forest supervisor.

Sitgreaves.—CHARLES H. JENNINGS, forest supervisor, Snowflake (WU, P–WF).

Tonto.—C. C. HALL, forest supervisor, Roosevelt (WU–WF).

Tusayan.—HAROLD GREENE, forest supervisor, Williams (WU, P–WF); Robert L. Deering, deputy forest supervisor.

Zuni.—See New Mexico.

NEW MEXICO.

Alamo.—R. F. BALTHIS, forest supervisor, Cloudcroft (WU–WF).

Carson.—RAYMOND E. MARSH, forest supervisor, Tres Piedras (WU–G); Chas. H. Kissam, deputy forest supervisor.

Chiricahua.—See Arizona.

Datil.—W. H. GODDARD, forest supervisor, Magdalena (WU, P–WF); H. Basil Wales, forest examiner.

Gila.—HUGH G. CALKINS, supervisor, Silver City (WU, P–WF); Ausburn H. Douglas, deputy forest supervisor; Fort Bayard Nursery, H. C. Turner, forest planting assistant.

Jemez.—DON P. JOHNSTON, forest supervisor, Sante Fe (WU, P–G, WF); Ira T. Yarnall, deputy forest supervisor.

Lincoln.—J. A. KINNEY, forest supervisor, Capitan (WU–WF).

Manzano.—JAMES F. MULLEN, forest supervisor, Albuquerque (WU, P–WF).

Pecos.—DON P. JOHNSTON, forest supervisor, Santa Fe (WU, P–G, WF); Ira T. Yarnall, deputy forest supervisor; Las Gallinas Nursery, Herman Krauch, forest examiner.

Zuni.—JAMES F. MULLEN, forest supervisor, Albuquerque (WU, P–WF).

DISTRICT 4.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Office, Forest Service Building, Ogden Utah.

E. A. SHERMAN, district forester; J. P. MARTIN, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). J. F. LAWSON, assistant to the solicitor, in charge.

ACCOUNTS.—Q. R. CRAFT, district fiscal agent.

OPERATION.—A. C. MCCAIN, assistant district forester.

MAINTENANCE.—FELIX T. MOORE.

SILVICULTURE.—O. M. BUTLER, assistant district forester; D. F. SEERY logging engineer; D. M. LANG, lumberman; S. C. SCRIBNER, scaler.

PLANTING.—J. M. FETHEROLF.

GRAZING.—HOMER E. FENN, assistant district forester.

STUDIES.—MARK ANDERSON, grazing examiner.

LANDS.—T. C. HOYT, assistant district forester; R. E. GERY, assistant; B. L. Wheeler, mineral examiner; C. G. Smith, in charge of land classification.

SUPPLY DEPOT.—A. M. SMITH, property clerk.

PROPERTY AUDIT.—J. G. FALCK, property auditor.

EXPERIMENT STATION.

Utah, Manti National Forest.—ARTHUR W. SAMPSON, in charge; E. R. Hodson and S. E. Bower (temporary detail), Ephraim, Utah.

NATIONAL FORESTS.

ARIZONA.

Dixie.—See Utah.

Kaibab.—JAMES L. PELTON, forest supervisor, Kanab, Utah (WU–WF).

IDAHO.

Boise.—E. GRANDJEAN, forest supervisor, Boise (WU–Am); M. S. Benedict, deputy forest supervisor; Dana Parkinson, forest examiner.

Cache.—See Utah.

Caribou.—G. G. BENTZ, forest supervisor, Montpelier (WU–Am); L. W. Hastings, deputy forest supervisor.

Challis.—DAVID LAING, forest supervisor, Challis (WU–Am); Herman Work, forest examiner.

Idaho.—HERBERT GRAFF, forest supervisor, McCall (WU–P).

Lemhi.—C. I. HUDDLE, forest supervisor, Mackay (WU–AM).

Minidoka.—W. M. CAMPBELL, forest supervisor, Oakley (WU–AM).

Palisade.—FRANK J. RYDER, forest supervisor, St. Anthony (WU–Am).

Payette.—GUY B. MAINS, forest supervisor, Emmett (WU–Am); Lawrence J. Phelan, deputy forest supervisor; W. N. Sparhawk, forest examiner.

Pocatello.—CLINTON G. SMITH, forest supervisor, Logan, Utah; E. C. Shepard, deputy forest supervisor; Pocatello Nursery, Arthur P. Say, forest ranger in charge, Pocatello.

Salmon.—JOHN A. PEARSON, forest supervisor, Salmon (WU–Am); S. S. Stewart, deputy forest supervisor.

Sawtooth.—C. N. WOODS, forest supervisor, Hailey (WU–Am); Herbert G. McPheters and Samuel B. Locke, deputy forest supervisors.

Targhee.—CHESTER B. MORSE, forest supervisor, St. Anthony (WU–Am); Charles A. Beam, deputy forest supervisor; J. W. Stokes, forest examiner.

Weiser.—J. B. LAFFERTY, forest supervisor, Weiser (WU–Am); A. E. Oman, forest examiner.

NEVADA.

Humboldt.—S. B. ARTHUR, forest supervisor, Gold Creek (WU–WF).

Moapa.—THOMAS J. COLLINS, forest supervisor, Austin (WU–Am); Raymond G. Steele, deputy forest supervisor.

Nevada.—GEO. C. THOMPSON, forest supervisor, Ely (WU–WF); D. B. Bailey, deputy forest supervisor.

Ruby.—JAMES M. RYAN, forest supervisor, Deeth (WU–WF).

Santa Rosa.—W. W. BLAKESLEE, forest supervisor, Paradise.

Toiyabe.—THOMAS J. COLLINS, forest supervisor, Austin (WU, P–WF); Raymond G. Steele, deputy forest supervisor.

UTAH.

Ashley.—W. M. ANDERSON, forest supervisor, Vernal (WU–WF).

Cache.—CLINTON G. SMITH, forest supervisor, Logan (WU–Am); E. C. Shepard, deputy forest supervisor.

Dixie.—JOHN RAPHAEL, forest supervisor, St. George (WU–WF).

Fillmore.—ERNEST WINKLER, forest supervisor, Richfield (WU–WF); Lester E. Hitchcock, forest examiner.

Fishlake.—CARL B. ARENTSON, forest supervisor, Salina (WU–WF).

La Sal.—J. W. HUMPHREY, forest supervisor, Moab (WU–WF).

Manti.— ———, Ephraim (WU–WF); B. E. Mattsson, forest supervisor; W. M. Mace, deputy forest supervisor.

Minidoka.—See Idaho.

Pocatello.—See Idaho.

Powell.—GEO. H. BARNEY, forest supervisor, Escalante (WU–WF).

Sevier.—O. C. SNOW, forest supervisor, Panguitch (WU–WF).

Uinta.—A. W. JENSEN, forest supervisor, Provo (WU–WF); J. Carl Allred, deputy forest supervisor.

Wasatch.—J. F. BRUINS, forest supervisor, Salt Lake City (WU, P–Am, WF); Lee A. Harris, deputy forest supervisor; Cottonwood Nursery, N. J. Fetherolf, forest planting assistant, in charge; Beaver Creek Nursery, Asa L. Brower, forest examiner, in charge, Kamas.

WYOMING.

Ashley.—See Utah.
Caribou.—See Idaho.
Palisade.—See Idaho.
Targhee.—See Idaho.
Teton.—R. E. MILLER, forest supervisor, Jackson (WU–Am); H. B. Maris, forest examiner.
Wyoming.—JAMES E. JEWELL, forest supervisor, Afton (WU–Am); John E. Ingram, deputy forest supervisor; R. A. Stretch, forest examiner.

DISTRICT 5.

California and southwestern Nevada. Office, 114 Sansome street, San Francisco, Cal.

COERT DUBOIS, district forester; F. H. FOWLER, district engineer; J. L. MATHIAS, assistant to district engineer; W. C. HODGE, jr., in charge information; CLARENCE WILEY, inspector of records.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge.

ACCOUNTS.—A. W. SMITH, district fiscal agent.

OPERATION.—ROY HEADLEY, assistant district forester; D. P. GODWIN, national forest examiner, assigned to fire protection; FREDERICK H. HAFLEY, telephone expert; V. L. BONNER, deputy forest supervisor, assigned to road and entry surveys, etc.

MAINTENANCE.—F. H. SMITH.

SILVICULTURE.—T. D. WOODBURY, assistant district forester; SWIFT BERRY, forest examiner; J. C. ELLIOTT, lumberman; H. N. ORMSBEE, logging engineer.

LOUIS MARGOLIN, forest examiner, reconnaissance.

FOREST INVESTIGATIONS.—L. T. LARSEN, forest examiner.

RALPH HOPPING, national forest examiner, insect control.

CHARLES H. ENSIGN, scaler, mill scale study.

E. P. MEINECKE, consulting pathologist; J. S. BOYCE, scientific assistant, San Francisco, Cal.

GRAZING.—JOHN H. HATTON, assistant district forester.

LANDS.—L. A. BARRETT, assistant district forester; CHAS. S. BROTHERS, assistant; W. H. FRIEDHOFF, mineral examiner. Land classification; S. N. STONER, national forest examiner, in charge of district; J. O. MORROW, deputy forest supervisor, in charge of field party. Entry surveys; P. L. DAY, national forest examiner, surveyor.

PRODUCTS.—C. STOWELL SMITH, assistant district forester, in charge; C. A. KUPFER, forest examiner.

EXPERIMENT STATIONS.

Feather River, Plumas National Forest.—J. A. MITCHELL, forest examiner, in charge, Quincy, Cal.

Converse, Angeles National Forest.—EDWARD N. MUNNS, forest assistant, in charge, Seven Oaks, Redlands, Cal.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P–WF).

California.—M. A. BENEDICT, forest supervisor, Oriental (WU via Willows–WF); B. H. Mace, deputy forest supervisor; S. W. Strothman, forest examiner.

Cleveland.—S. W. WYNNE, forest supervisor, San Diego (WU, P–WF).

Eldorado.—EVAN W. KELLEY, forest supervisor, Placerville (WU–WF); Oscar M. Evans, forest examiner.

Inyo.—A. H. HOGUE, forest supervisor, Bishop (WU–WF).

Klamath.—W. B. RIDER, forest supervisor, Yreka (WU–WF); J. R. Hall, deputy forest supervisor; Douglas K. Noyes, forest examiner; John T. Noddin, forest ranger, reconnaissance.

Lassen.—W. J. RUSHING, forest supervisor, Mineral (P via Red Bluff–WF); Shirley W. Allen, deputy forest supervisor; R. H. Boerker, forest examiner.

Modoc.—W. G. DURBIN, forest supervisor; Alturas (P–WF); Belknap C. Goldsmith, forest examiner.

Mono.—See Nevada.

Monterey.—N. H. SLOANE, forest supervisor, Arbolado (WU, Monterey–WF, Monterey).

Plumas.—D. N. ROGERS, forest supervisor, Quincy (WU, Keddie, Cal.–G); Frank B. Cayot, deputy forest supervisor; George R. Orr and Reese W. Taylor, forest examiners.

Santa Barbara.—C. E. RACHFORD, forest supervisor, Santa Barbara (P–WF); H. G. Merrill, deputy forest supervisor; W. M. Moore, forest examiner.

Sequoia.—ALLAN B. PATTERSON, forest supervisor, Hot Springs (WU via Ducor–WF); F. P. Cunningham, deputy forest supervisor; George W. Lyons, forest examiner.

Shasta.—R. F. HAMMATT, forest supervisor, Sisson (P–WF); M. R. Tillotson, deputy forest supervisor; Stewart B. Show and Edward I. Kotok, forest examiners; Pilgrim Creek Nursery, Fred W. Graham, assistant forest ranger, in charge, McCloud.

Sierra.—P. G. REDINGTON, forest supervisor, Northfork (WU via Friant–WF, Friant); Ernest G. Dudley and Cary Hill, forest examiners.

Stanislaus.—R. W. AYRES, forest supervisor, Sonora (WU–WF); T. C. West, deputy forest supervisor; J. V. Wulff, forest examiner.

Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU–WF); W. A. Merrill, deputy forest supervisor; W. H. Gallaher and K. Mills, forest examiners.

Trinity.—W. A. HUESTIS, forest supervisor, Weaverville (WU–WF); J. D. Coffman, deputy forest supervisor; Ernst V. Jotter, forest examiner.

NEVADA.

Eldorado.—See California.

Inyo.—See California.

Mono.—WM. M. MAULE, forest supervisor, Gardnerville (WU–WF).

Tahoe.—See California.

DISTRICT 6.

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

GEO. H. CECIL, district forester; E. LEONARD LUNDGREN, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge; EARL C. ARNOLD, assistant to the solicitor.

ACCOUNTS.—A. H. COUSINS, district fiscal agent.

OPERATION.—C. H. FLORY, assistant district forester.

MAINTENANCE.—SHIRLEY BUCK.

SILVICULTURE.—F. E. AMES, assistant district forester; C. S. JUDD, assistant district forester; W. H. GIBBONS, investigation of logging costs; W. T. ANDREWS and C. H. WOODCOCK, logging engineers; L. A. NELSON, lumberman; EDWIN C. ERICKSON, scaler.

PLANTING.—J. F. KÜMMEL and C. P. WILLIS, forest examiners.

FOREST INVESTIGATIONS.—T. T. MUNGER, forest examiner.

GRAZING.—T. P. MACKENZIE, assistant district forester.

LANDS.—C. J. BUCK, assistant district forester; land classification, J. ROY HARVEY, national forest examiner.

PRODUCTS.—H. B. OAKLEAF, in charge; W. J. Paeth, Portland; C. W. Zimmerman, Cornelius Barry, Seattle, Wash.

EXPERIMENT STATION.

Wind River, Columbia National Forest.—JULIUS V. HOFMANN, forest assistant, in charge, Carson, Wash.

NATIONAL FORESTS.

ALASKA.

Chugach.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU–AP, Am); Thomas M. Hunt, deputy forest supervisor.

Tongass.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU–AP, Am); Geo. L. Drake, forest examiner.

OREGON.

Cascade.—C. R. SEITZ, forest supervisor, Eugene (WU, P–WF); B. F. Heintzleman, deputy forest supervisor.

Crater.—M. L. ERICKSON, forest supervisor, Medford (WU, P–WF); E. H. MacDaniels, deputy forest supervisor; H. D. Foster, William E. White, Bruce Hoffman, forest examiners.

Deschutes.—MELVIN L. MERRITT, forest supervisor, Bend (WU, PT & T–GN).

Fremont.—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev–P, WF); R. A. Bradley, deputy forest supervisor; Norman G. Jacobson, forest examiner.

Klamath.—See California.

Malheur.—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker–Am, WF via Baker).

Minam.—EPHRAIM BARNES, forest supervisor, Baker (WU–Am).

Ochoco.—HOMER ROSS, forest supervisor, Prineville (WU, PT & T–Am); Allen Hodgson, deputy forest supervisor.

Oregon.—T. H. SHERRARD, forest supervisor, Portland (WU, P–Am, WF, N); Ralph S. Shelley, deputy forest supervisor; W. B. Osborne, forest examiner.

Paulina.—Apportioned for administrative purposes to the Deschutes, the Fremont, and the Crater.

Santiam.—F. H. BRUNDAGE, forest supervisor, Albany (WU, P–WF); A. R. Wilcox, forest examiner; W. H. Leve, forest examiner.

Siskiyou.—N. F. MACDUFF, forest supervisor, Grants Pass (WU, P–WF); D. B. Reynolds, deputy forest supervisor; H. Haefner, forest examiner.

Siuslaw.—H. B. RANKIN, forest supervisor, Eugene (WU, P–WF); S. C. Beach, deputy forest supervisor; H. M. Johnson, forest examiner.

Umatilla.—W. W. CRYDER, forest supervisor, Heppner (WU, P–Am).

Umpqua.—S. C. BARTRUM, forest supervisor, Roseburg (WU, P–WF); George Bonebrake, deputy forest supervisor; A. F. Kerr, forest examiner.

Wallowa.—H. W. HARRIS, forest supervisor, Wallowa (WU–Am); N. J. Billings, deputy forest supervisor.

Wenaha.—See Washington.

Whitman.—HENRY IRELAND, forest supervisor, Sumpter (WU via Baker–Am, WF via Baker); R. M. Evans, deputy forest supervisor.

WASHINGTON.

Chelan.—G. W. MILHAM, forest supervisor, Chelan (PT & T–Am, GN via Wenatchee).

Columbia.—A. E. COHOON, forest supervisor, Portland, Oreg. (WU, P–Am, WF, N); W. W. G. Hastings, deputy forest supervisor; L. Wernsted, forest examiner; C. P. Willis, forest examiner.

Colville.—C. C. REID, forest supervisor, Republic (WU, P–Am, GN); F. W. Cleator, deputy forest supervisor.

Okanogan.—H. M. HALE, forest supervisor, Okanogan (PT & T–Am, GN via Wenatchee); V. V. Harpham, deputy forest supervisor.

Olympic.—R. L. FROMME, forest supervisor, Olympia (WU, P–Am, GN, N); A. A. Parker, deputy forest supervisor.

Rainier.—G. F. ALLEN, forest supervisor, Tacoma (WU, P–Am, N); P. T. Harris, deputy forest supervisor; E. J. Fenby, forest examiner.

Snoqualmie.—STANTON G. SMITH, forest supervisor, Seattle (WU, P–N, GN, WF); Lewis A. Treen, jr., deputy forest supervisor; Alexander G. Jackson, forest examiner.

Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P–Am, GN, N).

Wenaha.—J. M. SCHMITZ, forest supervisor, Walla Walla (WU–Am, N).

Wenatchee.—A. H. SYLVESTER, forest supervisor, Leavenworth (WU–Am, GN).

DISTRICT 7.

Arkansas, Florida, Oklahoma, South Carolina, Georgia, North Carolina, Tennessee, Virginia, West Virginia, New Hampshire. Office, Atlantic Building, Washington, D. C.

WM. L. HALL, district forester; FRANKLIN W. REED, assistant district forester; K. W. WOODWARD, forest inspector; H. O. STABLER, assistant district forester.

NATIONAL FORESTS.

ARKANSAS.

Arkansas.—S. A. CHAPPELL, forest supervisor, Hot Springs (WU, P–WF, P); D. E. Fitten, deputy forest supervisor; C. J. Heller, forest examiner.

Ozark.—FRANCIS KIEFER, forest supervisor, Harrison (WU–WF); R. C. Huey, deputy forest supervisor; Robert S. Wallace, forest examiner.

FLORIDA.

Florida.—I. F. ELDREDGE, forest supervisor, Camp Pinchot, Garniers (WU, P); W. F. Hill, deputy forest supervisor.

OKLAHOMA.

Wichita.—FRANK RUSH, game warden, in charge, Cache (WU–WF).

PURCHASE AREAS.

Cherokee.—H. L. JOHNSON, forest examiner, in charge, Etowah, Tenn. (WU, P–Ad).

Georgia.—E. V. CLARK, national forest examiner, in charge, Blue Ridge, Ga. (WU, P–Ad).

Massanutten.—E. D. CLARK, forest examiner, in charge, Woodstock, Va. (WU, P–Ad).

Mount Mitchell.—L. L. BISHOP, forest examiner, in charge, Marion, N. C. (WU, P–Ad).

Monongahela.—W. A. HOPSON, forest examiner, in charge, Elkins, W. Va. (WU, P–Ad).

Nantahala.—R. F. HEMINGWAY, forest examiner, in charge, Andrews, N. C. (WU, P–Ad).

Natural Bridge.—J. H. FAHRENBACH, forest examiner, in charge, Natural Bridge, Va. (WU, P–Ad).

Potomac.—E. D. CLARK, forest examiner, in charge, Woodstock, Va. (WU, P–Ad).

Savannah (N).—J. J. FRITZ, forest examiner, in charge, Highlands, N. C. (WU, P–Ad).

Savannah (S).—R. W. SHIELDS, forest examiner, in charge, Clayton, Ga. (WU, P–Ad).

Shenandoah.—S. H. MARSH, forest examiner, in charge, Harrisonburg, Va. (WU, P–Ad).

Smoky Mountain.—W. J. DAMTOFT, forest assistant, acting in charge, Townsend, Tenn. (WU, P–Ad).

Unaka.—E. P. BUSHNELL, forest examiner, in charge, Johnson City, Tenn. (WU, P–Ad).

White Top.—H. L. RUSSELL, forest examiner, acting in charge, Abingdon, Va. (WU, P–Ad).

White Mountain.—J. S. BENEDICT, forest examiner, in charge, Gorham, N. H. (WU, P–Am).

BUREAU OF ENTOMOLOGY.

L. O. Howard, Chief.

Branch of Forest Insect Investigations—A. D. Hopkins, in charge.

FOREST INSECT FIELD STATIONS.

Northern Rocky Mountain Station, Missoula, Mont., for the States of Montana, Idaho, eastern Oregon, eastern Washington, Wyoming, Nebraska, and South Dakota, north of the 42d parallel of latitude. Josef Brunner, in charge.

Southern Rocky Mountain Station, Colorado Springs, Colo., for the States of New Mexico, Arizona, Colorado, Utah, and Nevada. W. D. Edmonston, in charge.

Pacific Slope Station, Placerville, Cal., for the States of California, western Oregon, and western Washington west of about the 120th meridian. H. E. Burke, in charge.

Pacific Slope Substation, Ashland, Oreg., for the special investigation of insect enemies of forest-tree seeds. J. M. Miller, in charge.

Eastern Station, East Falls Church, Va., for the Eastern States. S. A. Rohwer, in charge.

SERVICE CHANGES.

APPOINTED.

Acquisition.—Theron N. Mize, M. G. Slarrow, Ray D. Barnes, Philip H. Burch, Dow G. Beck, Paul G. Jenney, Lawrence Nelson, Burleigh R. Downey, Fred. A. Spencer, transitmen.

Grazing.—Fred. D. Douthitt, grazing assistant.

District 1.—Hartley A. Calkins, draftsman (topographic), district office. Operation: George A. Edwards, Edward P. Keron, Jay B. Fletcher, Lolo, scalers; Francis T. Carroll, Beaverhead; Emil A. Anderson, Harry M. Ralston, Blackfeet; Arthur M. Baum, Beartooth; Orie E. Heater, James Carl Saint, Cabinet; Edward W. Kurtz, Deerlodge; Elmer H. Billsborough, Ezra Ingram Shaw, Flathead; Orrin C. Bradeen, Helena; Ray L. Greathouse, Jefferson; Chester A. Simpson, Kootenai; Claude R. Townsend, Stanley C. Sanderson, Lorenzo F. Jefferson, Lewis and Clark; Ross L. Stalcup, Madison; James N. Templer, Sioux, assistant forest rangers; Charlotte M. Ellerbrock, clerk (stenographer and typewriter), Blackfeet.

District 2.—Operation: Berney F. Kitt, civil engineer and draftsman, district office; Thomas V. Keefe, forest assistant, Montezuma;

Fred L. Martin, district office; Riley Cass, jr., Henry L. Miller, Pike; Walter H. Serfoss, Battlement; Hans N. Kleiber, Lionel H. Sherman, Bighorn; Earl W. Hummel, Haines F. Pond, Black Hills; Thomas L. Northrop, Cochetopa; Thomas E. Price, Durango; Louis H. Murphey, Frank R. Olds, John V. Leighou, Harney; John C. Peryam, Horace B. Quivey, Hayden; Harry Friend, Holy Cross; Fred J. Stock, Medicine Bow; Wm. C. Davis, Minnesota; Lucas D. J. Chaves, Rio Grande; Austin P. Russell, Pleasant H. Sallee, Oliver E. Taylor, Routt; Holland Coleman, San Isabel; Walter F. Goodman, Homer Weller, Shoshone; Rolla C. Prater, Leonard C. Shoemaker, Sopris; Charles L. Cecil, Albin E. Drakenberg, Maryland J. Valentine, Superior; Harry C. Bennett, Uncompahgre; John G. Bruce, C. D. Noble, Washakie; John G. Hossack, White River, assistant forest rangers; Elizabeth M. Turner, clerk (stenographer and typewriter), Uncompahgre.

District 3.—Operation: Walter A. Stenhouse, draftsman (topographic), district office; Charles M. Weber, copist topographic draftsman, district office; William Roland Lynch, Carson; Robert Stephenson, Carson; Germain H. Gage, Joseph M. Phillips, Gila; James I. Hatch, R. L. Pfaffle, Jemez; Roscoe C. James, Claude H. Parks, Lincoln; Otto P. Schoenberg, Manzano; Hugh M. Bryan, Marcel F. Pincetl, Pecos; Ralph C. Ramsay, Prescott; Franklin H. Owens, Sitgreaves; John C. Parent, Frank M. Stanley, Tonto; Edward H. Oldham, Tusayan, assistant forest rangers; Greta Herrick, Prescott; Orwyn P. Veach, Sitgreaves, clerks (stenographers and typewriters). Lands: Claire A. Coggeshall, clerk (stenographer and typewriter), district office; Howard B. Ricketts, clerk, district office.

District 4.—Operation: Jack L. Oquin, Warren C. Taylor, Boise; Leslie E. Dodge, George L. McGowan, Challis; Dagbert M. Adair, Junius Webb, Fishlake; Lewis T. Quigley, La Sal; Dewey J. Hesner, Robert Johnson, Charles McKelvey, Lemhi; Simon Kinney, Minidoka; Alvin E. Harris, John N. Moutschka, Ernest Stone, Palisade; William F. Tribe, Frank H. Miller, John D. Parker, DeWitt Russell, Harmon A. Shannon, Payette; Percy L. White, Ruby; Clarence L. McCracken, Salmon; Arthur N. Howard, Horace B. Howland, Henry K. Lewis, Sawtooth; Karl C. Allan, Targhee; James W. McGowan, James A. Wholey, Toiyabe; George E. Holman, Unita; George Donart, Karl L. Mann, Henry L. Smith, Weiser, assistant forest rangers; Mark Anderson, Caribou; Leon C. Hurtt, Manti; Homer S. Youngs, grazing assistants.

District 5.—Archibald M. Cooper, Walter D. Marx, Angeles; Wallace E. Green, Mono; John F. Douglas, Walter Douglas, Albert Gould, Challen L. Grigsby, Herbert F. Wilcox, William S. Williams, Plumas; Lee R. De Camp, Sequoia; George H. Cory, Shasta, assistant forest rangers; Harvey D. Gerwig, Cleveland; William L. Mayhew, Lassen; Alfred R. Ratcliffe, Mono; William E. Harris, Tahoe, forest clerks; Harrold C. Haglund, clerk (stenographer and typewriter), Lassen.

DISTRICT 6.—Operation: Christopher Moen, clerk (forest), Cascade; Ethel Winter, clerk (stenographer and typewriter), Fremont; Wm. J. McDonald, Chugach; Wm. L. Jones, Bert A. Nason, Lee C. Port, Crater; J. O. F. Anderson, Charles M. Irvine, Ochoco; Paul S. Heaton, Okanogan; John D. Ahl, Lee F. Chartrand, Earl H. McArdle, Olympic; Thomas R. Brown, Roy E. Garwood, Oregon; Frank K. Childs, Paulina; Clarence D. Springer, Santiam; Claude E. Noble, Siskiyou; John W. Lundin, Arthur E. Kloe, Snoqualmie; Horace U. Cochran, Siuslaw; Otto G. King, Lewis E. McDaniels, Umpqua; Arthur G. Collins, Frank B. Lenzie, Francis A. Varo, Wenatchee; Albert G. Angell, Rush Ramey, Wallace W. Weber, Whitman, assistant forest rangers; Chas. T. Gardner, clerk to forest ranger, Tongass.

DISTRICT 7.—Garner B. Anchors, Florida; Charles Christian, Samuel S. Blair, Henry Koen, Ozark, assistant forest rangers.

PROMOTED IN RANK.

ACQUISITION.—E. M. Bruner, W. R. Barbour, R. J. Noyes, Karl Schmitt, H. G. Spahr, H. S. Davis, forest assistants to forest examiners.

DISTRICT 1.—Operation: Ralph E. Bodley, Madison, William W. Bennett, Lolo; Fay G. Clark, Missoula, forest assistants to deputy forest supervisors; Harry Lee Baker, Kootenai; Roy A. Phillips, Lolo, assistant forest rangers to forest rangers; Leslie F. Vinal, forest ranger to scaler, Kootenai. District office: John B. Somers, assistant forest ranger to national forest examiner.

DISTRICT 2.—Operation: Robert E. Pratt, land examiner to surveyor, district office; Fred R. Johnson, forest examiner to forest supervisor, Nebraska; Edward H. Peck, assistant forest ranger to forest ranger, Routt.

DISTRICT 3.—Operation: Henry L. Taylor, Crook; Virgil D. Smith, Sitgreaves, assistant forest rangers to forest rangers; James F. Mullen, national forest examiner to forest supervisor, Manzano. Lands: John A. Adams, forest ranger to deputy forest supervisor, district office.

DISTRICT 4.—Operation: Bernard E. Mattsson, Manti; Walter M. Campbell, Minidoka, deputy forest supervisors to forest supervisors; Edwin C. Shepard, Cache; Hubert C. Williams, Payette, forest examiners to deputy forest supervisors; William M. Mace, forest ranger to deputy forest supervisor, Manti; Duncan M. Lang, scaler to lumberman; Sterling L. Colton, La Sal; Thomas E. Woolstenhulme, Wasatch, assistant forest rangers to forest rangers.

DISTRICT 5.—Edward N. Munns, district office; Douglas K. Noyes, Klamath; Dwight C. Birch, Sierra, forest assistants to forest examiners; Frederick H. Smith, assistant forest ranger to clerk (stenographer and typewriter), district office; Martin E. White, assistant forest ranger to forest ranger, Shasta.

DISTRICT 6.—Operation: Jasper T. Taylor, Colville; Robert J. O'Farrell, Rainier, assistant forest rangers to forest rangers; Reginald A. Bradley, forest ranger to deputy forest supervisor, Fremont; George L. Drake, forest assistant to forest examiner, Tongass. Silviculture: Lorence A. Nelson, scaler to lumberman, district office. Products: C. W. Zimmerman, assistant engineer in forest products to engineer in forest products, Seattle Laboratory.

CHANGE IN DESIGNATION.

SILVICULTURE.—Forest Investigations: Raphael Zon, chief, office of Silvics, to chief, Forest Investigations; Samuel T. Dana, assistant chief, office of Silvics, to assistant chief, Forest Investigations.

LANDS.—Water Power: O. C. Merrill, hydroelectrical engineer to chief engineer; T. W. Norcross, assistant engineer to assistant chief engineer.

DISTRICT 1.—District Office: Alfred B. Hastings, deputy forest supervisor to forest examiner. Operation: William W. Morris, deputy forest supervisor to forest examiner, Coeur d'Alene; Knox McAnally, forest ranger to clerk, Blackfeet.

DISTRICT 2.—Operation: Louis Knowles, forest supervisor, Sundance, to deputy forest supervisor, Harney.

DISTRICT 3.—Operation: William L. Scofield, Apache, Earl W. Loveridge, Carson; Murrell W. Talbot, Coconino; Ward Shepard, Datil; Marinus Westveld, Gila; Thomas P. Reid, Pecos; Edward P. Ancona, Prescott; Reginald D. Forbes, Tonto, George W. Kimball, Tusayan, forest assistants to assistant forest rangers.

DISTRICT 5.—David P. Godwin, forest supervisor to national forest examiner, district office.

RESIGNED.

ACQUISITION.—John H. Keyes, forest assistant; Archibald D. Duffie, Vincent L. Ahern, transitmen.

PRODUCTS.—Laboratory: Charles S. Gwinn, assistant engineer in forest products.

DISTRICT 1.—Operation: David T. Conkling, forest supervisor, Gallatin; Henry W. de Nancrede, forest examiner, Coeur d'Alene; Waldo D. Barlow, forest assistant, Helena; Argyll L. Rumbaugh, Beaverhead; James E. Adams, Lewis and Clark; Henry P. Barringer, Lolo, forest rangers; Walter R. Eyman, Absaroka; Emerson L. Yeager, Bitterroot; James R. Mahoney, William L. Davis, Blackfeet; Charles A. Newman, Custer; Ralph J. Eveleth, Jefferson, assistant forest rangers; Harold L. Redlingshafer, forest clerk, Helena; Josephine A. Torkelson, clerk (stenographer and typewriter), Blackfeet.

DISTRICT 2.—Operation: Charles B. Gosorn, draftsman, district office; George R. Morrison, forest examiner, Holy Cross; Victor A. Beede,

forest assistant, Pike; Stanley R. Brock, forest ranger, Routt; Charles A. Davis, Bighorn; Burns Will, Colorado; Henry H. McCrary, Harney; Frank E. Stapleton, Routt; Harry P. Reifsneider, Superior, assistant forest rangers; A. M. Bittner, forest clerk, Routt.

DISTRICT 3.—Operation: G. Harris Collingwood, Apache; Louis H. Mosimann, Pecos; Marshall D. Loveless, Prescott; William M. Cohea, Tonto, assistant forest rangers; Franklin R. Taylor, Crook; Harry L. Castle, Tonto, forest rangers; N. Curtis Case, deputy forest supervisor, Gila; Frank P. Collins, clerk, Sitgreaves. Lands: Otto F. Swenson, forest examiner, district office.

DISTRICT 4.—Operation: Alexander McQueen, forest ranger, Pocatello; Lorenzo E. Hammond, Cache; Lewis A. Harris, Dixie; Thomas Alvey, Kaibab; Marion T. Johnson, Minidoka; Edward R. Tuttle, Payette, assistant forest rangers.

DISTRICT 5.—Albert C. Brown, Angeles; Charles H. Freeburn, Sequoia, assistant forest rangers; Frank Helfrich, forest ranger, Shasta; Ralph H. Browning, Cleveland; Alfred W. Rogers, Lassen, forest clerks; William M. Slosson, forest supervisor, Santa Barbara.

DISTRICT 6.—Lands: Walter M. Stephen, mineral examiner, district office. Operation: Britian T. Douglass, Colville; Julius M. Shields, Malheur; William C. Sweat, Okanogan; Joseph H. Prout, Oregon; Harold T. Lewis, Siuslaw; Charles R. McAlister, Umatilla, assistant forest rangers.

DISMISSED.

DISTRICT 5.—Thomas M. Kennedy, clerk (stenographer and typewriter), district office.

The following resolution was adopted at the five hundred and seventy-fifth regular meeting of the service committee on June 17:

Resolved, That in the death of Overton W. Price, a former member of this committee, the members of the committee have sustained the loss of a friend and counselor whose nobility of character, sincerity of friendship, and wise advice and guidance have been a source of inspiration and encouragement to us all; the profession of forestry one of its most illustrious members; the cause of conservation one of its most brilliant exponents and leaders; and the Nation a man who was faithful and self-sacrificing in his efforts to preserve to the people their heritage of natural wealth; therefore this committee records its sense of personal loss and extends to the members of Mr. Price's family its deepest and most sincere sympathy in their bereavement.

With deep regret announcement is made of the death of Alfred P. Hamilton, examiner of surveys, April 15; Barnard McNulty, forest ranger, Nevada, April 24; John F. Pernot, forest examiner, District 6, June 17; and E. A. Melzar, assistant chief, Office of Accounts, July 17.

SERVICE NOTES FOR JULY.

These notes contain instructions and necessary information to forest officers, and will therefore be carefully read and kept on file for reference.

SERVICE ORDER 43.

District 7.

June 27, 1914.

There is hereby established in the Forest Service, effective on and after July 1, 1914, an additional administrative district to be known as District 7, with headquarters at the Forest Service, Washington, D. C. This district will include the Luquillo, Arkansas, Ozark, Wichita, and Florida National Forests, the present Weeks Law Purchase Areas and such additional Purchase Areas as may be designated in the eastern states. The new district will be in charge of Assistant Forester Wm. L. Hall, who will perform the duties which in the other districts devolve upon the district forester. The various branches of the Forest Service will exercise the same administrative functions over this district as they do over the other six.

H. S. Graves, *Forester.*

ACCOUNTS.

Alterations Made in Accounts During Administrative Examination.

The following memorandum and copies of letters have been received from the Chief Clerk of the Department of Agriculture:

Department of Agriculture,
Office of Chief Clerk,
Washington, D. C., July 6, 1914,

To chiefs of bureaus, divisions, and offices:

I am directed by the advisory committee on finance and business methods to transmit for your information and guidance the attached copy of a letter dated June 23, 1914, from the Auditor for the State and Other Departments with reference to alterations made during the administrative examination affecting accounts submitted by claimants, and copy of an extract from a letter of the Comptroller of the Treasury to the Secretary of Agriculture under date May 28, 1914, on the same subject.

As suggested by the auditor, steps should be taken to avoid any administrative cancellation, erasure, or change of a claimant's bill as rendered.

R. M. Reese, *Chief Clerk.*

TREASURY DEPARTMENT,
Washington, June 23, 1914.

The honorable the SECRETARY OF AGRICULTURE,
Washington, D. C.

SIR: There has been received to-day for settlement in this bureau claim of the Northern Pacific Railway Co., rendered by said company in the sum of $71.32, Forest Service voucher No. 08644. The first two entries on the voucher carry charges for transportation of household goods of a Forest Service employee. The figures appearing in the columns "Weight," "Gross amount," "Land-grant deduction," and "Amount claimed" in these first two entries have been canceled in pencil, while corrective or memorandum pencil entries have been added. The total of the bill also has been crossed out and new figures substituted above in ink.

The office has frequently had occasion to call atttention to alterations apparently made during the administrative examination affecting accounts submitted by claimants. The comptroller, in several decisions, has strongly criticized this practice, which he terms "spoliation" of the voucher. I should be glad if steps may be taken to avoid any administrative cancellation, erasure, or change of the claimant's bill as rendered.

Very respectfully, E. D. HEARNE, *Auditor.*

[Extract from letter of Comptroller of the Treasury to Secretary of Agriculture dated May 28, 1914.]

I note that in suggesting certain instructions on the voucher forms you propose to commit the accounting officers of the Treasury to sanctioning the practice of permitting the claimant to change figures or other important accounting data on the voucher, either before or after certification by him, when made over his signature or initials. While it is true that the accounting officers may, in the exercise of their discretion and judgment, allow a claim where such changes and corrections have been bona fide made, yet this is far different from encouraging the practice of certifying to and approving altered vouchers. Wherever practicable vouchers showing erasures or other alterations when received from claimant should be returned to him for purpose of being recast before administrative certification and approval. The instructions should show that erasures or other alterations in the bill are not to be permitted. Fiscal Regulation No. 30, or other departmental regulation contrary to this view, should be modified accordingly.

LAW.

Office of the Solicitor.

Law Cases in District 1—

United States *v.* Hough and Babbitt: Timber trespass, Coeur d'Alene National Forest. Case closed upon payment of $120.39, full value of timber cut.

United States *v.* Rose Lake Lumber Co.: Timber trespass, Coeur d'Alene National Forest. Case closed upon payment of $185.56, full value of timber cut.

United States *v.* Peat Parker: Timber trespass, Pend Oreille National Forest. Case closed upon payment of $225, full settlement of trespass.

United States *v.* T. D. Farrow: Grazing trespass, Flathead National Forest. Case closed upon payment of $42.50, full value of forage consumed.

United States *v.* Charles H. Thex: Grazing trespass, Custer National Forest. Case closed upon payment of $381.90, full value of forage consumed.

Law Cases in District 2—

United States *v.* Arthur Pennington, Woodland Mercantile Co., and Colorado Midland Railway Co.: Timber trespass, Pike National Forest. Judgment rendered February 12, 1914, against Pennington and the Woodland Mercantile Co. for $489.73, with interest amounting to $47.87, total $537.60. Complaint against Colorado Midland Railway Co. dismissed without prejudice. Final settlement of case now pending before the Department of Justice upon offer of $184.64 by Woodland Mercantile Co. in satisfaction of judgment.

United States *v.* Thomas J. Van Arsdale: On April 22, 1914, the grand jury, sitting at Pueblo, Colo., returned an indictment against Thomas J. Van Arsdale for impersonating a forest officer.

United States *v.* Crago & Kaufman: Fire trespass, Black Hills National Forest. Settled by the payment of $130.

United States *v.* Telluride Power Co.: Suit for $1,552.44 damages for destruction of ranger station by bursting of reservoir, Montezuma National Forest. Settled by the acceptance of $776.22 offered by the company.

Law Cases in District 3—

On April 6, in the grazing trespass case against J. W. Marley & Sons (W. H. Burbage, receiver), Coconino National Forest, a decree was entered enjoining the defendants from further grazing stock in trespass on the Forest and requiring the removal of all stock from the Forest. A judgment for $450 damages was also entered.

On April 30, the judgment against John Parker for grazing trespass on the Alamo National Forest was satisfied by the payment of $244.22, the amount of the judgment, interest, and costs.

Law Cases in District 4—

On March 26 Jacob Bear was found guilty of leaving a camp fire unattended on the Boise National Forest and was fined $25 and costs, which he paid.

Civil damages in the sum of $14.64 were paid May 15 by Joseph Christensen on account of a fire permitted to escape from homestead lands to the Fillmore National Forest.

The case of the United States *v.* the Utah Light & Railway Co., involving the question as to whether by construction of its plant on public lands prior to May 14, 1896, any rights had vested as against the United States, was tried and argued June 1 in the United States district court at Salt Lake City. Decision was rendered June 29 sustaining all the contentions of the Government and granting a permanent injunction against the maintenance of the projects of this company on the Wasatch National Forest without permit.

Law Cases in District 5—

Fire trespass case against D. C. McNabb on the Angeles National Forest was settled by the payment of $295.85.

Fire trespass case against B. G. Collins on the Sierra National Forest was settled by the final payment of $32.50, making a total payment of $62.50.

Timber trespass case on the Sierra National Forest against Humphreys Bros. was settled by the payment of $191.20.

Grazing trespass case against Thomas Brady on the Plumas National Forest was settled by the payment of $20.37.

Trial of the fire trespass case against Byron Scoggins was held at Fresno on May 4 and 5, 1914, for the recovery of damages. Verdict was returned by the jury for the defendant. In this case testimony regarding the salaries and expenses of forest officers was admitted as an element of damage.

The criminal grazing trespass case of United States *v.* Pierre Grimaud was closed by a plea of guilty and a fine of $10 in the Federal court at Fresno.

The master in chancery in San Francisco made a report recommending cancellation of the patent of Harry M. Grover to the St. Louis placer claim, within the Eldorado National Forest, on the ground of fraud.

The master in chancery also made a report recommending cancellation of the homestead patent of George E. Simpson, within the California National Forest, on the ground of fraud.

Law Cases in District 6—

W. K. Ladd pleaded guilty to a grazing trespass on the Wenaha National Forest, and was fined $50 by the United States district court at Spokane, which he immediately paid.

W. L. LaMotte. Injunction to restrain use of waters on Alder Creek Ranger Station, Okanogan National Forest: In accordance with the

stipulation between parties a decree was entered in the United States District Court for the Eastern District of Washington, that the United States is the owner and entitled to the use of 3 miners' inches, under 4-inch pressure, of the waters of Alder Creek for a period not exceeding 3 days in each 10 days from June 15 to September 1 of each year, provided that the total use during that period shall not exceed 16 days. The case of LaMotte against Newton A. Wilcox, forest ranger, and George W. Milham, forest supervisor, officers of the Government, and others, involving title to said water, and initiated in the Superior Court of Okanogan County, was dismissed as to the above defendants.

George Haveman and George W. Ellison, fire trespass, Washington National Forest. The defendants were indicted by the grand jury. pleaded guilty, and were fined $25 each, which was paid.

Monumental Mines Co., timber trespass, Siskiyou National Forest. This action was brought on April 3, 1912, for the cutting of timber on the Klamath National Forest, State of California. Since the Attorney General directed the institution of this action, that part of the Klamath Forest within which the trespass occurred was added to the Siskiyou National Forest in California, but became a part of this district. The suit was compromised by the payment of $494.10. While the case was handled largely by District 5, the amount recovered was deposited to the credit of this district.

The case of the United States *v.* Simon McKee, criminal fire trespass on the Siskiyou National Forest, was tried in the United States District Court for Oregon on June 8 and 9. Defendant was found guilty and sentenced to a fine of $50 and 6 months in jail. Sentence was suspended on account of the fact that the defendant is 70 years old.

SERVICE PUBLICATIONS ISSUED.

Department Bulletin 72.—Suitability of Longleaf Pine for Paper Pulp.
Department Bulletin 77.—Rocky Mountain Mine Timbers.
Department Bulletin 87.—Flumes and Fluming.
Farmers' Bulletin 582.—Uses for Chestnut Timber Killed by the Bark Disease.
Farmers' Bulletin 592.—Stock Watering Places on Western Grazing Lands.
Unnumbered Pub.—Tyloses: A Study of their Occurrence and Practical Significance in some American Woods.
Unnumbered Pub.—The Country's Forests.
Unnumbered Pub.—Our Timber Supply.
Unnumbered Pub.—Systematic Fire Protection in the California Forests.
Unnumbered Pub.—Principles and Procedure Governing the Classification and Segregation of Agricultural and Forest Lands in the National Forests.
Folder for Washington National Forest.
Folder for Chelan National Forest.

CUMULATIVE INDEX TO SERVICE NOTES AND ORDERS.

(JULY, 1914.)

[Numbers in parentheses after the month indicate page.]

Alterations made in accounts during administrative examination; July (25–26).
District 7 established; July (25).
Service Order 43; July (25).
Law cases in district 1; July (27).
2; July (27).
3; July (27).
4; July (28).
5; July (28).
6; July (28–29).
Trespass cases, fire, district 2; July (27).
4; July (28).
5; July (28).
6; July (29).
grazing, district 1; July (27).
3; July (27).
5; July (28).
6; July (28).

Trespass cases, occupancy, district 2: July (27).
4; July (28).
5; July (28).
6; July (28–29).
timber, district 1; July (27).
2; July (27).
5; July (28).
6; July (29).

WASHINGTON: GOVERNMENT PRINTING OFFICE: 1914

D. T. Mulford

Issued October 15, 1914.

UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.

HENRY S. GRAVES, Forester.

October Field Program, 1914.

This program of field work and assignments in the Forest Service is issued quarterly, on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

OFFICE OF THE FORESTER.

HENRY S. GRAVES, Forester.

ALBERT F. POTTER, Associate Forester.

HERBERT A. SMITH, editor; BRISTOW ADAMS, in charge of information.
FINDLEY BURNS, in charge of technical review.
Educational cooperation, DON CARLOS ELLIS.
Proofs and forms, CLAUDE M. BALLARD.
GEORGE B. SUDWORTH, dendrologist.
EUGENE S. BRUCE, expert lumberman.

ACCOUNTS.

M. E. FAGAN, chief; A. W. SMITH, assistant chief.

OPERATION.

JAMES B. ADAMS, assistant forester, in charge; D. D. BRONSON, forest inspector; ALLEN S. PECK, forest inspector; GEORGE G. ANDERSON, administrative assistant.

GEOGRAPHY.—C. A. KOLB, chief.

ATLAS.—G. B. BRUCE.

DRAFTING.—J. M. WITHEROW.

PHOTOGRAPHY.—E. S. SHIPP.

ALIENATION.—J. B. SATTERLEE, J. E. BURCH.

MAINTENANCE.—GEORGE A. BENTLEY, chief.

SUPPLIES.—S. L. MCLAURIN, property clerk.

SILVICULTURE.

W. B. GREELEY, assistant forester, in charge; EARLE H. CLAPP, forest inspector; R. Y. STUART, forest inspector; AUSTIN CARY, logging engineer; HARRY IRION, office assistant.

STATE COOPERATION.—J. G. PETERS, chief.

Inspection.—L. S. Murphy.

Compilation of State forest laws.—Miss J. S. Peyton.

Collaborators, State cooperative fire protection under the Weeks law.—B. S. Viles, land agent and forest commissioner, Augusta, Me.; E. C. Hirst, State forester, Concord, N. H.; F. H. Billard, forester, New Hampshire Timberland Owners' Association, Berlin, N. H.; A. F. Hawes, State forester, Burlington, Vt.; F. W. Rane, State forester, Boston, Mass.; W. O. Filley, State forester, New Haven, Conn.; W. G. Howard, assistant superintendent of forests, Albany, N. Y.; C. P. Wilber, State fire warden, Trenton, N. J.; F. W. Besley, State forester, Baltimore, Md.; J. A. Viquesney, forest, game, and fish warden, Belington, W. Va.; J. E. Barton, State forester, Frankfort, Ky.; M. Schaaf, State forester, Roscommon, Mich.; E. M. Griffith, State forester, Madison, Wis.; Wm. T. Cox, State forester, St. Paul, Minn.; G. W. Roskie, State forester, Custer, S. Dak.; J. C. Van Hook, State forester, Helena, Mont.; G. A. Day, State land commissioner, Boise, Idaho; F. A. Elliott, State forester, Salem, Oreg.; E. W. Ferris, State forester and fire warden, Olympia, Wash.

Study of forest conditions in North Carolina in cooperation with State Geological and Economic Survey.—J. S. Holmes, Chapel Hill.

FOREST INVESTIGATIONS.—RAPHAEL ZON, chief; S. T. DANA, assistant chief.

Studies.—E. H. Frothingham, W. D. Sterrett, C. R. Tillotson, G. N. Lamb, W. R. Mattoon, G. E. Clement, C. H. Shinn, Benton MacKaye.

FOREST DISTRIBUTION.—W. H. LAMB, in charge; Miss G. E. Wharton.

COMPUTING.—W. B. BARROWS.

LIBRARY.—Miss H. E. STOCKBRIDGE.

COMPILATION.—GEO. DE S. CANAVARRO; Miss E. B. Leech.

Cloquet Experiment Station in cooperation with the University of Minnesota.—W. H. Kenety, Cloquet, Minn.

COOPERATION WITH PRIVATE TIMBERLAND OWNERS.—E. S. BRYANT, chief.

GRAZING.

A. F. POTTER, associate forester, in charge; L. F. KNEIPP, assistant forester; WILL C. BARNES, inspector of grazing.

GRAZING STUDIES (in cooperation with F. V. Coville, botanist, Bureau of Plant Industry).—JAMES T. JARDINE, inspector of grazing, in charge, and Alfred E. Aldous, grazing examiner, Washington, D. C.

Forage investigations.—William A. Dayton, plant ecologist, Washington, D. C.

William R. Chapline, grazing assistant, Ephraim, Utah.

LANDS.

JAMES B. ADAMS, assistant forester, in charge; W. J. MANGAN, examiner.

LAND CLASSIFICATION.—E. A. SHERMAN, in charge.

SETTLEMENT.—F. L. HARVEY, in charge; JOHN D. JONES, examiner.

ENTRY SURVEYS.—ROBERT V. R. REYNOLDS, in charge.

BOUNDARIES.—B. L. WHEELER, in charge.

WATER POWER.—O. C. MERRILL, chief engineer; T. W. NORCROSS, assistant chief engineer; R. R. RANDELL, junior engineer.

CLAIMS AND OCCUPANCY.—CHARLES H. SQUIRE, in charge.

PRODUCTS.

W. B. GREELEY, assistant forester, in charge.

FOREST PRODUCTS LABORATORY (in cooperation with the University of Wisconsin, Madison, Wis.).—HOWARD F. WEISS, director.

H. S. BETTS and CARLILE P. WINSLOW, administrative assistants.

ADVISORY BOARD.—Dr. W. K. Hatt, mechanical and civil engineer, Purdue University; Prof. Charles F. Burgess, chemical engineer; Dr. L. R. Ingersoll, professor of physics, University of Wisconsin; Prof. I. W. Bailey, forestry school, Harvard University.

Commercial extension.—ROLF THELEN.

Review of results.—FRANK J. HALLAUER.

DERIVED PRODUCTS.—Dr. S. F. ACREE, in charge; Ernest Bateman, A. W. Schorger, F. W. Kressman, R. C. Palmer, Homer Cloukey, Lester E. Cover.

ENGINEERING.—A. L. HEIM, in charge; James O. Bixby, Harry N. Knowlton.

MAINTENANCE.—CHAS. P. JUCKEM, in charge.

PULP AND PAPER.—O. L. E. WEBER, in charge; H. E. Surface, Sidney D. Wells, G. C. McNaughton, Sidney E. Lunak, Clinton K. Texter.

TIMBER PHYSICS.—H. D. TIEMANN, in charge; Eloise Gerry, N. de W. Betts, M. E. Diemer, James E. Imrie, A. Koehler.

TIMBER TESTS.—JOHN A. NEWLIN, in charge; A. K. Armstrong, Thomas R. C. Wilson.

WOOD PRESERVATION.—CLYDE H. TEESDALE, in charge; Geo. E. Hunt, Robt. E. Prince, E. C. Sparver, Harlow Bradley.

PATHOLOGY (in cooperation with the Bureau of Plant Industry).—C. J. HUMPHREY, in charge; Ruth E. Fleming.

INDUSTRIAL INVESTIGATIONS.—O. T. SWAN, in charge, Washington, D. C. Departmental Cooperation, Inspection and Revision of Government Specifications, O. T. Swan and R. K. Helphenstine, jr., Washington, D. C. Study of Single Standard of Measurement of White Oak in Arkansas (District 7), John T. Harris, Hot Springs, Ark. Production of Lumber and Forest Products (in cooperation with the Bureau of Crop Estimates, the Bureau of the Census, and lumber manufacturers' associations), A. H. Pierson, Washington, D. C. Blighted Chestnut Utilization Studies, J. C. Nellis, Washington, D. C. Veneer Investigations, S. L. Wolfe, Washington, D. C. Slack-cooperage Investigations, O. T. Swan, Washington, D. C. Tight-cooperage Investigations, John T. Harris, Washington, D. C. Box Industry Investigations, J. C. Nellis, Washington, D. C. Study of Commercial Southern Yellow Pine to Determine Improved Grading and Inspection Systems (in cooperation with yellow pine associations), W. D. Brush, C. W. Gould, D. G. White, Washington, D. C. Factory Waste Utilization, R. K. Helphenstine, jr., Washington, D. C. Utilization Study of Hardwoods not Resistant to Moths (in cooperation with Bureau of Entomology), J. C. Nellis, Winchendon, Mass. Lumber and Stumpage Price Records, J. C. Nellis, Washington, D. C. Collaborators, Hu Maxwell, Chicago, Ill.; A. B. Strough, Albany, N. Y.

ACQUISITION OF LANDS UNDER THE WEEKS LAW.

WM. L. HALL, assistant forester in charge, Washington, D. C.

LUMBERMAN'S EXAMINATIONS.—E. D. Fletcher, Gorham, N. H.; C. D. Cushing and George E. Marshall, Washington, D. C.

RECONNAISSANCE.—R. C. Hall, P. T. Coolidge, E. M. Bruner, forest examiners, Washington, D. C.

EXAMINATION OF LANDS.—W. W. ASHE, forest inspector in charge, Washington, D. C. White Mountain Area, D. W. Martin, forest examiner in charge of party, Gorham, N. H. Natural Bridge Area, E. L. Lindsey, forest assistant in charge of party, Natural Bridge, Va. White Top Area, H. M. Sears, forest assistant in charge of party, Abingdon, Va. Unaka Area, J. L. Cobbs, jr., forest examiner in charge of party, Johnson City, Tenn. Savannah Area, H. G. Spahr, forest examiner, Clayton, Ga. Cherokee Area, S. H. Thompson, forest examiner in charge of party, Andrews, N. C. Alabama Area, C. E. Beaumont, forest examiner, Haleyville, Ala.

SURVEY OF LANDS.—RUDOLPH DIEFFENBACH, forest examiner, in charge; Robert G. Merritt, forest examiner; White Mountain Area, Arthur E. Hoxie, Frederick A. Gardner, Leon C. Marshall, E. L. Merrill, and J. W. Fox, examiners of surveys, Gorham, N. H.; Potomac Area, A. M. Ockerblad, examiner of surveys, Woodstock, Va.; Massanutten Area, E. P. Whitten and E. R. Conrad, examiners of surveys, Woodstock, Va.; Unaka Area, E. F. Benedum, examiner of surveys, Johnson City, Tenn.; White Top Area, W. N. Sloan, examiner of surveys, Abingdon, Va.; Mount Mitchell Area, Dave M. Gibson and Thomas A. Cox., jr., examiners of surveys, Marion, N. C.; Nantahala Area, Percy B. Ferebee, transitman in charge, Andrews, N. C.; Pisgah Area, James Denman, examiner of surveys, Biltmore, N. C.; Savannah (N) Area, Harold G. Wood, examiner of surveys, Highlands, N. C.; Cherokee Area, A. J. Bohn, examiner of surveys, Etowah, Tenn.; Monongahela Area, Marvin L. Taylor, examiner of surveys, Elkins, W. Va.; Shenandoah Area, C. F. Muzzey, examiner of surveys, Harrisonburg, Va.; Natural Bridge Area, Beverly M. Higginbotham and Robert E. Witt, examiners of surveys, Natural Bridge, Va.

LAW.—A. H. MCCONVILLE, assistant to solicitor, in charge, Washington, D. C. Title attorneys, George E. Taylor and James H. Swan, Bristol, Tenn.; Alfred S. Grigg and E. W. R. Ewing, Johnson City, Tenn.; Julius Fletcher, Franklin, N. C.; Collin H. Harding, Marion, N. C.; Cameron F. McRae, Biltmore, N. C.; Gordon Combs, Clayton, Ga.; John Awtrey, Blue Ridge, Ga.; M. B. Stickley, Staunton, Va.; W. L. Newman and M. E. Stickley, Woodstock, Va.; Frederick Goshorn, Elkins, W. Va.; H. A. Lamprey, Woodsville, N. H.

DISTRICT 1.

Montana, northeastern Washington, northern Idaho, northwestern South Dakota, and southwestern North Dakota. Office, Federal Building, Missoula, Mont.

F. A. SILCOX, district forester; E. W. KRAMER, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). D. F. McGowan, assistant to the solicitor, in charge; A. W. Herger, assistant to the solicitor.

ACCOUNTS.—John A. Urbanowicz, district fiscal agent.

OPERATION.—J. F. Preston, assistant district forester; R. B. Adams, superintendent of telephone construction.

Maintenance.—Gardner I. Porter.

Geography.—F. E. Bonner. G. H. Loutz, entry surveys; C. F. Farmer, topographic surveys.

SILVICULTURE.—D. T. Mason, assistant district forester; Dorr Skeels, logging engineer.

Timber Sales.—Carl M. Stevens.

Planting.—E. F. White.

S. S. J. Malven, insect control.

James R. Weir, consulting pathologist, Missoula, Mont.

GRAZING.—C. H. Adams, assistant district forester.

Studies.—Chas. E. Fleming, grazing examiner.

LANDS.—R. H. Rutledge, assistant district forester.

Claims.—P. J. O'Brien.

Settlement.—J. W. Streit.

Land Classification.—C. B. Swim, assistant.

PRODUCTS.—P. R. Hicks.

EXPERIMENT STATION.

Priest River, Kaniksu National Forest.—Donald R. Brewster, in charge, Priest River, Idaho.

NATIONAL FORESTS.

IDAHO.

Clearwater.—Charles A. Fisher, forest supervisor, Orofino (WU–Am).

Coeur d'Alene.—Meyer H. Wolff, forest supervisor, Coeur d'Alene (WU–Am); F. I. Rockwell and Richard C. Eggleston, forest examiners.

Kaniksu.—See Washington.

Nezperce.—George V. Ring, forest supervisor, Grangeville (WU–Am); J. Arthur Brown, deputy forest supervisor.

Pend Oreille.—J. A. Fitzwater, forest supervisor, Sandpoint (WU–Am, N, W).

Selway.—Frank A. Fenn, forest supervisor, Kooskia (WU–N); Charles F. Howell, deputy forest supervisor.

St. Joe.—Edward A. Holcomb, forest supervisor, St. Maries (Continental–WF); Wilford B. Willey, deputy forest supervisor.

MONTANA.

Absaroka.—JOSEPH D. WARNER, forest supervisor, Livingston (WU–Am, N).

Beartooth.—R. TREVOR FERGUSON, forest supervisor, Billings (WU–Am, N); J. C. Whitham, deputy forest supervisor.

Beaverhead.—C. K. WYMAN, forest supervisor, Dillon (WU–Am); John E. David, deputy forest supervisor.

Bitterroot.—W. W. WHITE, forest supervisor, Missoula (WU–Am, N).

Blackfeet.—R. P. MCLAUGHLIN, forest supervisor, Kalispell (WU–Am, GN).

Cabinet.—CLAUDE W. GRIFFIN, forest supervisor, Thompson Falls (WU–Am, N).

Custer.—GEORGE E. MARTIN, forest supervisor, Miles City (WU–Am, N).

Deerlodge.—LEWIS C. STOCKDALE, forest supervisor, Anaconda (P–Am, N); C. N. Whitney, and C. R. Clark, forest examiners.

Flathead.—DONALD BRUCE, forest supervisor, Kalispell (WU–Am, GN); John H. Clack, deputy forest supervisor.

Gallatin.—RALPH E. BODLEY, acting forest supervisor, Bozeman (WU–Am, N).

Helena.—J. B. SEELY, forest supervisor, Helena (WU–Am, N).

Jefferson.—SCOTT LEAVITT, forest supervisor, Great Falls (WU–Am, N); Wellman Holbrook, deputy forest supervisor.

Kootenai.—GLEN A. SMITH, forest supervisor, Libby (WU–Am, GN); Justin K. Dwinelle, deputy forest supervisor; Webster H. Ransom and John C. Ketridge, forest examiners.

Lewis and Clark.—THOMAS C. SPAULDING, forest supervisor, Chouteau (WU–Am, GN).

Lolo.—ELERS KOCH, forest supervisor, Missoula (WU, P–Am, N); John E. Keach, forest examiner; William W. Bennett, deputy forest supervisor.

Madison.—ROSCOE G. WILLSON, forest supervisor, Sheridan (WU–Am, N).

Missoula.—RUTLEDGE PARKER, forest supervisor, Missoula (WU, P–Am, N); Fay G. Clark, deputy forest supervisor.

Sioux.—See South Dakota.

NORTH DAKOTA.

Dakota.—ARTHUR C. HAINES, acting forest supervisor, Camp Crook, S. Dak. (WU via Bellefourche–Am via Bellefourche).

SOUTH DAKOTA.

Sioux.—ARTHUR C. HAINES, acting forest supervisor, Camp Crook (WU via Bellefourche–Am via Bellefourche).

WASHINGTON.

Kaniksu.—M. N. STICKNEY, forest supervisor, Coolin, Idaho (WU via Priest River–Am, GN, via Priest River); J. F. Forsythe, deputy forest supervisor.

DISTRICT 2.

Colorado, Wyoming, South Dakota, Nebraska, western Kansas, northern Michigan, and northern Minnesota. Office, Majestic Building, Denver, Colo.

SMITH RILEY, district forester; LYLE A. WHITSIT, hydroelectrical engineer; T. W. VENEMANN, information.

LAW.—Office of the Solicitor (Forest Service branch). GEORGE E. TROWBRIDGE, assistant to the solicitor, in charge.

ACCOUNTS.—H. I. LOVING, district fiscal agent.

OPERATION.—FRED W. MORRELL, assistant district forester.

MAINTENANCE.—F. H. CARROLL.

SILVICULTURE.—C. M. GRANGER, assistant district forester; J. H. POTTS, forest examiner; EARL B. TANNER, lumberman.

PLANTING.—SEWARD D. SMITH.

FOREST INVESTIGATIONS.—C. G. BATES.

CARL HARTLEY, consulting pathologist, Denver, Colo.

GRAZING.—J. W. NELSON, assistant district forester.

STUDIES.—LYNN H. DOUGLAS, grazing examiner.

LANDS.—C. J. STAHL, assistant district forester; THOS. M. MOORMAN, assistant; RESS PHILIPS, land classification.

EXPERIMENT STATIONS.

Fremont, Pike National Forest.—F. B. NOTESTEIN, Manitou, Colo.

Wagon Wheel Gap, Rio Grande National Forest.—HOWARD R. FLINT, Wagon Wheel Gap, Colo., and Thomas A. Blair, of the Weather Bureau.

NATIONAL FORESTS.

COLORADO.

Arapaho.—ALVA A. SIMPSON, forest supervisor, Fraser (WU–Ad); Arthur T. Upson, forest examiner.

Battlement.—JOHN W. LOWELL, jr., forest supervisor, Collbran (WU–WF, G); John W. Spencer, forest examiner.

Cochetopa.—EUGENE WILLIAMS, forest supervisor, Saguache (WU–G); Charles P. Bliss, forest examiner.

Colorado.—H. N. WHEELER, forest supervisor, Fort Collins (WU–WF); Huber C. Hilton, forest examiner.

Durango.—ERNEST W. SHAW, forest supervisor, Durango (WU–G); R. S. Wheeler, forest examiner.

Gunnison.—WILLIAM R. KREUTZER, forest supervisor, Gunnison (WU–WF, G).

Hayden.—See Wyoming.

Holy Cross.—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU–WF, G).

La Sal.—See Utah, District 4.

Leadville.—R. E. CLARK, forest supervisor, Leadville (WU, P–WF, G); J. E. Martin, forest examiner.

Montezuma.—GORDON PARKER, acting forest supervisor, Mancos (WU–G).

Pike.—THEO. SHOEMAKER, forest supervisor, Denver (WU, P–Ad, Am, G, US, WF); W. I. Hutchinson and Everard S. Keithley, forest examiners; Monument Nusery, W. H. Schrader, forest planting assistant, in charge, Monument.

Rio Grande.—A. L. SWEITZER, forest supervisor, Monte Vista (WU–G); Walter F. Bowers, deputy forest supervisor; Jay Higgins, forest examiner.

Routt.—ARTHUR M. COOK, forest supervisor, Steamboat Springs (WU–Ad); Ray Peck, deputy forest supervisor.

San Isabel.—J. N. LANGWORTHY, forest supervisor, Westcliffe (WU–G); Albin G. Hamel, forest examiner.

San Juan.—H. EARL FRENCH, forest supervisor, Pagosa Springs (WU–G); A. F. C. Hoffman, forest examiner.

Sopris.—JOHN MCLAREN, forest supervisor, Aspen (WU–WF, G); W. G. Baxter, forest examiner.

Uncompahgre.—HOWARD S. BUSHNELL, forest supervisor, Delta (WU–G).

White River.—JAMES A. BLAIR, forest supervisor, Meeker (WU–WF, G); Crosby A. Hoar, forest examiner.

KANSAS.

Kansas.—B. R. H. D'ALLEMAND, forest supervisor, Garden City (WU, P–WF); Garden City Nursery.

MICHIGAN.

Marquette.
Michigan. —W. B. PIPER, forest supervisor, East Tawas (WU–Am).

MINNESOTA.

Minnesota.—G. E. MARSHALL, forest supervisor, Cass Lake (WU–Am, GN).

Superior.—LESLIE BROWNELL, forest supervisor, Ely (WU–GN).

NEBRASKA.

Nebraska.—FRED R. JOHNSON, forest supervisor, Halsey (WU–Ad); Halsey Nursery, Theodore Krueger, forest assistant, in charge.

SOUTH DAKOTA.

Black Hills.—PAUL D. KELLETER, forest supervisor, Deadwood (WU–Ad, Am); William Wiehe, deputy forest supervisor; Percy T. Smith and Michael J. Sweeney, forest examiners.

Harney.—R. P. IMES, forest supervisor, Custer (WU–Ad); James F. Conner, deputy forest supervisor.

WYOMING.

Bighorn.—E. N. KAVANAGH, forest supervisor, Sheridan (WU–Ad); Andrew G. Stockwell, deputy forest supervisor; Earl S. Peirce, forest examiner.

Bonneville.—L. E. COOPER, forest supervisor, Dubois (WU–Am); Myron W. Thompson, forest examiner.

Bridger.—H. C. HALL, forest supervisor, Pinedale (WU–Am).

Hayden.—JAMES BLACKHALL, forest supervisor, Encampment (WU, P–Am); P. J. Paxton, forest examiner.

Medicine Bow.—GEO. A. DUTHIE, forest supervisor, Laramie (WU, P–Am); D. S. Jeffers, deputy forest supervisor.

Shoshone.—R. W. ALLEN, forest supervisor, Cody (WU–Ad); Fred B. Agee, deputy forest supervisor.

Sundance.—PAUL D. KELLETER, forest supervisor, Deadwood, S. Dak. (WU–Ad, Am).

Washakie.—C. G. POOLE, forest supervisor, Lander (WU–Am).

DISTRICT 3.

Arizona and New Mexico. Office, Luna-Otero Building, Albuquerque, N. Mex.

A. C. RINGLAND, district forester; LYLE A. WHITSIT, hydroelectrical engineer.

LAW.—Office of the Solicitor (Forest Service branch). J. O. SETH, assistant to the solicitor, in charge.

ACCOUNTS.—ALBERT MORRIS, district fiscal agent.

OPERATION.—A. O. WAHA, assistant district forester; PAUL P. PITCHLYNN, geography; O. N. POWELL, highway engineer; HOWARD B. WAHA, national forest examiner; DAVID L. MACBEATH, forest ranger, road surveys; L. V. SLONAKER, national forest examiner, telephone construction.

MAINTENANCE.—H. B. HAMMOND.

SILVICULTURE.—T. S. WOOLSEY, Jr., assistant district forester; JOSEPH C. KIRCHER, forest examiner; ATHOL A. WYNNE, lumberman; QUINCY RANDLES, forest examiner. Insect and erosion studies: A. J. JAENECKE, forest assistant.

W. H. LONG, consulting pathologist, Albuquerque, N. Mex.

GRAZING.—JOHN KERR, assistant district forester; ALDO LEOPOLD, forest supervisor (detail).

STUDIES.—R. R. HILL, grazing examiner; ARTHUR D. READ, forest examiner.

LANDS.—FRANK C. W. POOLER, assistant district forester; M. M. CHENEY, national forester examiner. Classification: FRANK E. ANDREWS, national forest examiner; REX KING, forest examiner. Entry surveys: W. G. TURLEY, surveyor, Coronado; R. P. A. JOHNSON, surveyor, Carson; C. A. LONG, surveyor, Apache.

EXPERIMENT STATION.

Fort Valley, Coconino National Forest.—G. A. PEARSON, in charge, Flagstaff, Ariz.; C. F. Korstian, forest examiner.

NATIONAL FORESTS.

ARIZONA.

Apache.—FREDERICK WINN, forest supervisor, Springerville (WU, P–WF); J. H. Sizer, deputy forest supervisor.

Chiricahua.—A. H. ZACHAU, forest supervisor, Portal, via Rodeo, N. Mex. (WU–WF).

Coconino.—JOHN D. GUTHRIE, forest supervisor, Flagstaff (WU, P–WF); Thomas E. McCullough, Gordon T. Backus, and H. D. Burrall, forest examiners.

Coronado.—ROBERT J. SELKIRK, forest supervisor; Clifford W. McKibbin, deputy forest supervisor, Tucson (WU–WF).

Crook.—T. T. SWIFT, forest supervisor, Safford (WU–WF).

Prescott.—C. H. HINDERER, forest supervisor, Prescott (WU–WF); J. C. McNelty, deputy forest supervisor.

Sitgreaves.—CHARLES H. JENNINGS, forest supervisor, Snowflake (WU, P–WF).

Tonto.—C. C. HALL, forest supervisor, Roosevelt (WU–WF).

Tusayan.—HAROLD GREENE, forest supervisor, Williams (WU, P–WF); Robert L. Deering, deputy forest supervisor.

NEW MEXICO.

Alamo.—R. F. BALTHIS, forest supervisor, Cloudcroft (WU–WF).

Carson.—RAYMOND E. MARSH, forest supervisor, Tres Piedras (WU–G); Chas. H. Kissam, deputy forest supervisor.

Chiricahua.—See Arizona.

Datil.—W. H. GODDARD, forest supervisor, Magdalena (WU, P–WF); H. Basil Wales, forest examiner.

Gila.—HUGH G. CALKINS, supervisor, Silver City (WU, P–WF); Ausburn H. Douglas, deputy forest supervisor; Fort Bayard Nursery, H. C. Turner, forest planting assistant.

Jemez.—DON P. JOHNSTON, forest supervisor, Santa Fe (WU, P–G, WF); Ira T. Yarnall, deputy forest supervisor; J. Wilbur O'Byrne, forest examiner.

Lincoln.—J. A. KINNEY, forest supervisor, Capitan (WU–WF).

Manzano.—JAMES F. MULLEN, forest supervisor, Albuquerque (WU, P–WF).

Pecos.—DON P. JOHNSTON, forest supervisor, Santa Fe (WU, P–G, WF); Ira T. Yarnall, deputy forest supervisor; Las Gallinas Nursery, Herman Krauch, forest examiner.

DISTRICT 4.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Office, Forest Service Building, Ogden, Utah.

E. A. SHERMAN, district forester; J. P. MARTIN, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). J. F. LAWSON, assistant to the solicitor, in charge.

ACCOUNTS.—Q. R. CRAFT, district fiscal agent.

OPERATION.—A. C. MCCAIN, assistant district forester; VERNON METCALF, administrative assistant; CHAS. H. KENDALL, highway engineer.

MAINTENANCE.—FELIX T. MOORE.

SILVICULTURE.—O. M. BUTLER, assistant district forester; D. F. SEERY, logging engineer; D. M. LANG, lumberman; S. C. SCRIBNER, scaler.

PLANTING.—J. M. FETHEROLF.

GRAZING.—HOMER E. FENN, assistant district forester.

C. N. WOODS, inspector of grazing.

STUDIES.—MARK ANDERSON, grazing examiner.

LEON C. HURTT, HOMER S. YOUNGS, FRED D. DOUTHITT, grazing assistants.

LANDS.—T. C. HOYT, assistant district forester; R. E. GERY, assistant; C. G. SMITH, in charge of land classification; W. B. RICE, in charge of entry surveys.

SUPPLY DEPOT.—A. M. SMITH, property clerk.

PROPERTY AUDIT.—J. G. FALCK, property auditor.

EXPERIMENT STATION.

Utah, Manti National Forest.—ARTHUR W. SAMPSON, in charge; E. R. Hodson and S. E. Bower (temporary detail), Ephraim, Utah.

NATIONAL FORESTS.

ARIZONA.

Dixie.—See Utah.

Kaibab.—LEE A. HARRIS, forest supervisor, Kanab, Utah (WU–WF).

IDAHO.

Boise.—E. GRANDJEAN, forest supervisor, Boise (WU–Am); Dana Parkinson, deputy forest supervisor.

Cache.—See Utah.

Caribou.—G. G. BENTZ, forest supervisor, Montpelier (WU–Am); L. W. Hastings, deputy forest supervisor; James H. Hull, forest examiner.

Challis.—DAVID LAING, forest supervisor, Challis (WU–Am); Herman Work, forest examiner.

Idaho.—HERBERT GRAFF, forest supervisor, McCall (WU–P).

Lemhi.—C. I. HUDDLE, forest supervisor, Mackay (WU–AM).

Minidoka.—W. M. CAMPBELL, forest supervisor, Oakley (WU–AM).

Palisade.—FRANK J. RYDER, forest supervisor, St. Anthony (WU–Am); Charles F. Evans, forest examiner.

Payette.—GUY B. MAINS, forest supervisor, Emmett (WU–Am); Lawrence J. Phelan and Hubert C. Williams, deputy forest supervisors; W. N. Sparhawk and Lee O. Miles, forest examiners.

Pocatello.—CLINTON G. SMITH, forest supervisor, Logan, Utah; E. C. Shepard, deputy forest supervisor; Pocatello Nursery, Arthur P. Say, forest ranger in charge, Pocatello.

Salmon.—JOHN A. PEARSON, forest supervisor, Salmon (WU–Am); S. S. Stewart, deputy forest supervisor.

Sawtooth.—M. S. BENEDICT, forest supervisor, Hailey (WU–Am); Herbert G. McPheters and Samuel B. Locke, deputy forest supervisors.

Targhee.—CHESTER B. MORSE, forest supervisor, St. Anthony (WU–Am); J. W. Stokes, forest examiner.

Weiser.—J. B. LAFFERTY, forest supervisor, Weiser (WU–Am); A. E. Oman, forest examiner.

NEVADA.

Humboldt.—S. B. ARTHUR, forest supervisor, Gold Creek (WU–WF).

Moapa.—THOMAS J. COLLINS, forest supervisor, Austin (WU–Am); Raymond G. Steele, deputy forest supervisor.

Nevada.—GEO. C. THOMPSON, forest supervisor, Ely (WU–WF); D. B. Bailey, deputy forest supervisor.

Ruby.—JAMES M. RYAN, forest supervisor, Deeth (WU–WF).
Santa Rosa.—W. W. BLAKESLEE, forest supervisor, Paradise.
Toiyabe.—THOMAS J. COLLINS, forest supervisor, Austin (WU, P–WF); Raymond G. Steele, deputy forest supervisor.

UTAH.

Ashley.—W. M. ANDERSON, forest supervisor, Vernal (WU–WF).
Cache.—CLINTON G. SMITH, forest supervisor, Logan (WU–Am); E. C. Shepard, deputy forest supervisor.
Dixie.—JOHN RAPHAEL, forest supervisor, St. George (WU–WF).
Fillmore.—ERNEST WINKLER, forest supervisor, Richfield (WU–WF); Lester E. Hitchcock, forest examiner.
Fishlake.—CARL B. ARENTSON, forest supervisor, Salina (WU–WF); David A. Arrivee, forest examiner.
La Sal.—J. W. HUMPHREY, forest supervisor, Moab (WU–WF).
Manti.—B. E. MATTSSON, forest supervisor; Ephraim (WU–WF); W. M. Mace, deputy forest supervisor; F. S. Baker and J. C. Roak, forest examiners.
Minidoka.—See Idaho.
Pocatello.—See Idaho.
Powell.—GEO. H. BARNEY, forest supervisor, Escalante (WU–WF).
Sevier.—O. C. SNOW, forest supervisor, Panguitch (WU–WF).
Uinta.—A. W. JENSEN, forest supervisor, Provo (WU–WF); J. Carl Allred, deputy forest supervisor.
Wasatch.—J. F. BRUINS, forest supervisor, Salt Lake City (WU, P–Am, WF); Cottonwood Nursery, N. J. Fetherolf, forest planting assistant, in charge; Beaver Creek Nursery, Asa L. Brower, forest examiner, in charge, Kamas; Earl C. Sanford, Raymond D. Garver, and Adolph G. Hauge, forest examiners.

WYOMING.

Teton.—R. E. MILLER, forest supervisor, Jackson (WU–Am); H. B. Maris, forest examiner.
Wyoming.—CHARLES A. BEAM, acting forest supervisor, Afton (WU–Am); John E. Ingram, deputy forest supervisor; R. A. Stretch, forest examiner.

DISTRICT 5.

California and southwestern Nevada. Office, 114 Sansome street, San Francisco, Cal.

COERT DUBOIS, district forester; F. H. FOWLER, district engineer; J. L. MATHIAS, assistant to district engineer; W. C. HODGE, jr., in charge information; CLARENCE WILEY, inspector of records.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge.

ACCOUNTS.—CHARLES C. BRUNNER, district fiscal agent.

OPERATION.—ROY HEADLEY, assistant district forester; D. P. GODWIN, national forest examiner, assigned to fire protection; FREDERICK H. HAFLEY, telephone expert; V. L. BONNER, deputy forest supervisor, assigned to road and entry surveys, etc.

MAINTENANCE.—F. H. SMITH.

SILVICULTURE.—T. D. WOODBURY, assistant district forester; SWIFT BERRY, forest examiner; J. C. ELLIOTT, lumberman; H. N. ORMSBEE, logging engineer.

W. H. GALLAHER, forest examiner, reconnaissance.

RALPH HOPPING, national forest examiner, insect control.

CHARLES H. ENSIGN, scaler, mill scale study.

E. P. MEINECKE, consulting pathologist; J. S. BOYCE, scientific assistant, San Francisco, Cal.

GRAZING.—JOHN H. HATTON, assistant district forester.

LANDS.—L. A. BARRETT, assistant district forester; CHAS. S. BROTHERS, assistant; W. H. FRIEDHOFF, mineral examiner. Land classification: S. N. STONER, national forest examiner, in charge of district; J. O. MORROW, deputy forest supervisor, in charge of field party. Entry surveys: P. L. DAY, national forest examiner, surveyor.

PRODUCTS.—C. STOWELL SMITH, assistant district forester, in charge; C. A. KUPFER, forest examiner.

EXPERIMENT STATIONS.

Feather River, Plumas National Forest.—J. A. MITCHELL, forest examiner, in charge, Quincy, Cal.

Converse, Angeles National Forest.—EDWARD N. MUNNS, forest examiner, in charge, Seven Oaks, Redlands, Cal.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P–WF).

California.—M. A. BENEDICT, forest supervisor, Oriental (WU via Willows–WF); B. H. Mace, deputy forest supervisor; S. W. Strothman, forest examiner.

Cleveland.—S. W. WYNNE, forest supervisor, San Diego (WU, P–WF).

Eldorado.—EVAN W. KELLEY, forest supervisor, Placerville (WU–WF); Oscar M. Evans, forest examiner.

Inyo.—A. H. HOGUE, forest supervisor, Bishop (WU–WF).

Kern.—Administered as a part of the Sequoia.

Klamath.—W. B. RIDER, forest supervisor, Yreka (WU–WF); J. R. Hall, deputy forest supervisor; Douglas K. Noyes, forest examiner; John T. Noddin, forest ranger, reconnaissance.

Lassen.—W. J. RUSHING, forest supervisor, Mineral (P via Red Bluff–WF); Shirley W. Allen, deputy forest supervisor; R. H. Boerker, forest examiner.

Modoc.—W. G. DURBIN, forest supervisor, Alturas (WU–WF); Belknap C. Goldsmith, forest examiner.

Mono.—See Nevada.

Monterey.—N. H. SLOANE, forest supervisor, Arbolado (WU, via Soledad–WF, Monterey).

Plumas.—D. N. ROGERS, forest supervisor, Quincy (WU, Keddie, Cal.–G); Frank B. Cayot, deputy forest supervisor; George R. Orr and Reese W. Taylor, forest examiners.

Santa Barbara.—C. E. RACHFORD, forest supervisor, Santa Barbara (P–WF); H. G. Merrill, deputy forest supervisor; W. M. Moore, forest examiner.

Sequoia.—ALLAN B. PATTERSON, forest supervisor, Hot Springs (WU via Ducor–WF); F. P. Cunningham, deputy forest supervisor; George W. Lyons, forest examiner.

Shasta.—R. F. HAMMATT, forest supervisor, Sisson (P–WF); M. R. Tillotson, deputy forest supervisor; Stewart B. Show and Edward I. Kotok, forest examiners; Pilgrim Creek Nursery, Fred W. Graham, assistant forest ranger, in charge, McCloud.

Sierra.—P. G. REDINGTON, forest supervisor, Northfork (WU via Friant–WF, Friant); D. C. Birch, Ernest G. Dudley, and Cary Hill, forest examiners.

Stanislaus.—R. W. AYRES, forest supervisor, Sonora (WU–WF); T. C. West, deputy forest supervisor; J. V. Wulff, forest examiner.

Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU–WF); W. A. Merrill, deputy forest supervisor; L. T. Larsen and K. Mills, forest examiners.

Trinity.—W. A. HUESTIS, forest supervisor, Weaverville (WU–WF); J. D. Coffman, deputy forest supervisor; Ernest V. Jotter, forest examiner.

NEVADA.

Eldorado.—See California.

Inyo.—See California.

Mono.—WM. M. MAULE, forest supervisor, Gardnerville (WU–WF).

Tahoe.—See California.

DISTRICT 6.

Washington, Oregon, and Alaska. Office, Beck Building, Portland. Oreg.

GEO. H. CECIL, district forester; E. LEONARD LUNDGREN, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge; EARL C. ARNOLD, assistant to the solicitor.

ACCOUNTS.—A. H. COUSINS, district fiscal agent.

OPERATION.—C. H. FLORY, assistant district forester; JAS. T. SCHUYLER, road engineer.

MAINTENANCE.—SHIRLEY BUCK.

SILVICULTURE.—F. E. AMES, assistant district forester; C. S. JUDD, assistant district forester; W. H. GIBBONS, investigation of logging costs; W. T. ANDREWS and C. H. WOODCOCK, logging engineers; L A. NELSON and EDWIN C. ERICKSON, lumbermen.

PLANTING.—J. F. KÜMMEL and C. P. WILLIS, forest examiners.

FOREST INVESTIGATIONS.—T. T. MUNGER, forest examiner.

GRAZING.—T. P. MACKENZIE, assistant district forester.

LANDS.—C. J. BUCK, assistant district forester; land classification, J. ROY HARVEY, national forest examiner.

PRODUCTS.—H. B. OAKLEAF, in charge; Claude E. Greider, Portland; C. W. Zimmerman, Cornelius Barry, Seattle, Wash.

EXPERIMENT STATION.

Wind River, Columbia National Forest.—JULIUS V. HOFMANN, forest examiner, in charge, Carson, Wash.

NATIONAL FORESTS.

ALASKA.

Chugach.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU–AP, Am); Thomas M. Hunt, deputy forest supervisor.

Tongass.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU–AP, Am); Geo. L. Drake, forest examiner.

OREGON.

Cascade.—C. R. SEITZ, forest supervisor, Eugene (WU, P–WF); B. F. Heintzleman, deputy forest supervisor.

Crater.—M. L. ERICKSON, forest supervisor, Medford (WU, P–WF); E. H. MacDaniels, deputy forest supervisor; H. D. Foster, William E. White, Bruce Hoffman, forest examiners.

Deschutes.—MELVIN L. MERRITT, forest supervisor, Bend (WU, PT & T–GN).

Fremont.—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev–P, WF); R. A. Bradley, deputy forest supervisor; Norman G. Jacobson, forest examiner.

Klamath.—See California.

Malheur.—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker–Am, WF via Baker).

Minam.—EPHRAIM BARNES, forest supervisor, Baker (WU–Am).

Ochoco.—HOMER ROSS, forest supervisor, Prineville (WU, PT & T–Am); Allen Hodgson, deputy forest supervisor.

Oregon.—T. H. SHERRARD, forest supervisor, Portland (WU, P–Am, WF, N); Ralph S. Shelley, deputy forest supervisor; W. B. Osborne, deputy forest supervisor.

Paulina.—Apportioned for administrative purposes to the Deschutes, the Fremont, and the Crater.

Santiam.—F. H. BRUNDAGE, forest supervisor, Albany (WU, P–WF); A. R. Wilcox, forest examiner; W. H. Leve, forest examiner.

Siskiyou.—N. F. MACDUFF, forest supervisor, Grants Pass (WU, P–WF); D. B. Reynolds, deputy forest supervisor; H. Haefner, forest examiner.

Siuslaw.—H. B. RANKIN, forest supervisor, Eugene (WU, P–WF); S. C. Beach, deputy forest supervisor; H. M. Johnson, forest examiner.

Umatilla.—W. W. CRYDER, forest supervisor, Heppner (WU, P–Am).

Umpqua.—S. C. BARTRUM, forest supervisor, Roseburg (WU, P–WF); George Bonebrake, deputy forest supervisor; A. F. Kerr, forest examiner.

Wallowa.—H. W. HARRIS, forest supervisor, Wallowa (WU–Am); N. J. Billings, deputy forest supervisor.

Wenaha.—See Washington.

Whitman.—HENRY IRELAND, forest supervisor, Sumpter (WU via Baker–Am, WF via Baker); R. M. Evans, deputy forest supervisor; T. J. Starker, forest examiner.

WASHINGTON.

Chelan.—G. W. MILHAM, forest supervisor, Chelan (PT & T–Am, GN via Wenatchee).

Columbia.—A. E. COHOON, forest supervisor, Portland, Oreg. (WU, P–Am, WF, N); W. W. G. Hastings, deputy forest supervisor; L. Wernsted, forest examiner; C. P. Willis, forest examiner.

Colville.—C. C. REID, forest supervisor, Republic (WU, P–Am, GN); F. W. Cleator, deputy forest supervisor.

Okanogan.—H. M. HALE, forest supervisor, Okanogan (PT & T–Am, GN via Wenatchee); V. V. Harpham, deputy forest supervisor.

Olympic.—R. L. FROMME, forest supervisor, Olympia (WU, P–Am, GN, N); A. A. Parker, deputy forest supervisor.

Rainier.—G. F. ALLEN, forest supervisor, Tacoma (WU, P–Am, N); P. T. Harris, deputy forest supervisor; E. J. Fenby, forest examiner.

Snoqualmie.—STANTON G. SMITH, forest supervisor, Seattle (WU, P–N, GN, WF); Lewis A. Treen, jr., deputy forest supervisor; Alexander G. Jackson, forest examiner.

Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P–Am, GN, N).

Wenaha.—J. M. SCHMITZ, forest supervisor, Walla Walla (WU–Am, N).

Wenatchee.—A. H. SYLVESTER, forest supervisor, Leavenworth (WU–Am, GN).

DISTRICT 7.

Arkansas, Florida, Oklahoma, South Carolina, Georgia, North Carolina, Tennessee, Virginia, West Virginia, New Hampshire. Office Atlantic Building, Washington, D. C.

WM. L. HALL, district forester; FRANKLIN W. REED, assistant district forester; K. W. WOODWARD, forest inspector; H. O. STABLER, assistant district forester.

NATIONAL FORESTS.

ARKANSAS.

Arkansas.—S. A. CHAPPELL, forest supervisor, Hot Springs (WU, P–WF, P); C. J. Heller, forest examiner.

Ozark.—FRANCIS KIEFER, forest supervisor, Harrison (WU–WF); R. C. Huey, deputy forest supervisor; Robert S. Wallace, forest examiner.

FLORIDA.

Florida.—I. F. ELDREDGE, forest supervisor, Camp Pinchot, Garniers (WU, P); W. F. Hill, deputy forest supervisor.

OKLAHOMA.

Wichita.—FRANK RUSH, game warden, in charge, Cache (WU–WF).

PURCHASE AREAS.

Cherokee.—H. L. JOHNSON, forest examiner, in charge, Etowah, Tenn. (WU, P–Ad).

Georgia.—E. V. CLARK, national forest examiner, in charge, Blue Ridge, Ga. (WU, P–Ad).

Massanutten.—E. D. CLARK, forest examiner, in charge, Woodstock, Va. (WU, P–Ad).

Mount Mitchell.—L. L. BISHOP, forest examiner, in charge, Marion, N. C. (WU, P–Ad).

Monongahela.—W. A. HOPSON, forest examiner, in charge, Elkins, W. Va. (WU, P–Ad).

Nantahala.—R. F. HEMINGWAY, forest examiner, in charge, Andrews, N. C. (WU, P–Ad).

Natural Bridge.—J. H. FAHRENBACH, forest examiner, in charge, Beuna Vista, Va. (WU, P–Ad).

Pisgah.—VERNE RHOADES, forest examiner, in charge, Asheville, N. C.

Potomac.—E. D. CLARK, forest examiner, in charge, Woodstock, Va. (WU, P–Ad).

Savannah (N).—J. J. FRITZ, forest examiner, in charge, Highlands, N. C. (WU, P–Ad).

Savannah (S).—R. W. SHIELDS, forest examiner, in charge, Clayton, Ga. (WU, P–Ad).

Shenandoah.—S. H. MARSH, forest examiner, in charge, Harrisonburg, Va. (WU, P–Ad).

Smoky Mountain.—W. J. DAMTOFT, forest assistant, acting in charge, Townsend, Tenn. (WU, P–Ad).

Unaka.—E. P. BUSHNELL, forest examiner, in charge, Johnson City, Tenn. (WU, P–Ad).

White Top.—H. L. RUSSELL, forest examiner, acting in charge, Abingdon, Va. (WU, P–Ad).

White Mountain.—J. S. BENEDICT, forest examiner, in charge, Gorham, N. H. (WU, P–Am).

BUREAU OF ENTOMOLOGY.

L. O. HOWARD, Chief.

BRANCH OF FOREST INSECT INVESTIGATIONS—A. D. HOPKINS, in charge.

FOREST INSECT FIELD STATIONS.

Northern Rocky Mountain Station, Missoula, Mont., for the States of Montana, Idaho, eastern Oregon, eastern Washington, Wyoming, Nebraska, and South Dakota, north of the 42d parallel of latitude. Josef Brunner, in charge.

Southern Rocky Mountain Station, Colorado Springs, Colo., for the States of New Mexico, Arizona, Colorado, Utah, and Nevada. W. D. Edmonston, in charge.

Pacific Slope Station, Placerville, Cal., for the States of California, western Oregon, and western Washington, west of about the 120th meridian. H. E. Burke, in charge.

Tree Seed Insect Station, Ashland, Oreg., for the special investigation of insect enemies of forest-tree seeds, for the Pacific slope and Rocky Mountains. J. M. Miller, in charge.

Eastern Station, East Falls Church, Va., for the Eastern States. S. A. Rohwer, in charge.

SERVICE CHANGES.

APPOINTED.

PRODUCTS.—Harlow Bradley and Edward C. Sparver, assistant engineers in forest products.

ACQUISITION.—August J. Bohn and John W. Fox, examiners of surveys; Walter O. Hill, transitman.

DISTRICT 1.—Operation: William M. Nagel, Joshua A. Cope, Coeur d'Alene; John B. Taylor, Deerlodge, forest assistants; Roscoe Haines, St. Joe, claims examiner; Edwin C. Mohr, Coeur d'Alene; Edward H. O'Brien, Clyde S. Webb, Alexander M. Brebner, St. Joe, scalers; William Vincent Evans, Lewis E. Ewan, Absaroka; Fred A. Gruel, Beartooth; Jocelyn A. Whitaker, Kaniksu, assistant forest rangers; Chester W. Cheatham, Coeur d'Alene; Elmer R. Johnson, Charles H. Neel, surveyor draftsmen, district office.

DISTRICT 2.—Operation: Riley Cass, jr., surveyor, district office; Reginald L. Chase, Fred D. Mendenhall, surveyor draftsmen, district office; Charles Steuart, Kenneth J. Braden, Ernest T. Wolf, Black Hills; William O. Sauder, Harney; Wallace J. Pearce, Hayden; Harold Allen Speidel, Rio Grande; Allen W. Murdock, Sopris; Harrison V. Bailey, White River, forest assistants; Lewis C. Davis, Arapaho; Franklin P. Legat, Bighorn; Henry T. Miller, Gunnison; Hugh I. Smith, Holy Cross; David S. Thomas, San Juan; Hugh B. Livingston, Shoshone; Gilbert H. Hutchins, Sopris, assistant forest rangers; John B. Sutherland, Bonneville; Charles B. Pool, Nebraska; Philip A. Maurice, Superior, clerks (forest).

DISTRICT 3.—Lands: R. P. A. Johnson, surveyor draftsman, district office; Curry A. Long, surveyor, district office; Hugh M. Neighbour, transitman, district office; Henry L. Lawson, assistant forest ranger, district office. Operation: Mabel M. Kennedy, map colorist, district office; Arthur S. Wingo, Alamo; Alexander Best, Carson; Joseph Eggum, Datil; Ray E. King, Manzano; Charles E. Reagan, Prescott, assistant forest rangers; Lenthall Wyman, Alamo; Willis M. Baker, Apache; Frank T. Murphey, Carson; Oscar F. Schaefer, Coconino;

Stanley F. Wilson, Coronado; Serrin S. Van Boskirk, Pecos; C. Norman Hammond, Tusayan, forest assistants; Bert E. Page, Carson; George R. Brown, Prescott, forest clerks; Victor H. Frey, clerk (stenographer and typewriter), Lincoln. Silviculture: Frank Harrison, forest clerk, Fort Valley Experiment Station.

DISTRICT 4.—Operation: Frank Douthitt, Caribou, grazing assistant: Lewis L. Baird, Frank Foster, Idaho; Benjamin Swapp, Kaibab; Simon Kinney, Minidoka; Merle W. Prusia, Nevada; James H. Jones, Palisade; William S. Kalbaugh, Santa Rosa; Levon H. Koomey, Wasatch, assistant forest rangers; Otto H. Tschanz, forest clerk, Lemhi; Herbert F. Aldridge, Irvin N. Hoffman, copyist-topographic draftsmen, district office. Property audit: Miss Anna M. Conroy, clerk (stenographer and typewriter); Vernon O. Maw, clerk (by transfer from the Office of Indian Affairs).

DISTRICT 5.—Operation: George Harris, Stephen A. Nash-Boulden, Cleveland; William B. Davis, Eldorado; Albert E. Gould, Plumas; Floyd V. Wike, Santa Barbara; Will L. Baughman, Mark C. Cathey, Claude W. McKenzie, Sierra; Lester O. Ames, Warren M. Watson, Stanislaus; Leland S. Smith, Tahoe; Carlton H. Fritz, Angeles; John R. Bauer, California; John C. Davis, Orville H. Hughes, Modoc, assistant forest rangers; William Groom, Klamath; Charles T. White, Stanislaus, clerks (stenographers and typewriters); Alfred W. Voigt, Plumas, forest assistant.

DISTRICT 6.—Operation: Verne L. Ketchum, surveyor draftsman, district office; Horace G. Whitney, Cascade, clerk; H. Lansing Plumb, Olympic; Alfred A. Griffin, Santiam; Willett F. Ramsdell, Wenatchee, forest assistants; John C. Rainier, Charles H. Wolverton, Chelan; Christian N. Skaar, Columbia; Lynn F. Cronemiller, Fremont; Rolland Huff, Minam; James F. Hutton, Olympic; Lee E. Emery, James C. Evenden, Oregon; James H. Billingslea, James T. Frankland, Snoqualmie; George Tonkin, Umatilla; Samuel R. Woods, Wenaha, assistant forest rangers. Lands: William M. H. Woodward, mineral examiner, district office; Carl N. Miller, Santiam, assistant forest ranger. Products: Claude E. Greider, statistician in forest products, district office.

DISTRICT 7.—Thomas A. Wilson, Robert M. Evans, Ozark; James A. Mason, Arkansas, assistant forest rangers.

PROMOTED IN RANK.

DISTRICT 1.—Operation: R. Trevor Ferguson, Pend Oreille, deputy forest supervisor to supervisor; Arthur C. Haines, Sioux, forest ranger to deputy forest supervisor.

DISTRICT 2.—Operation: Michael J. Sweeney, Black Hills; Everard S. Keithley, Pike, forest assistants to forest examiners; James F. Conner, Harney, forest ranger to deputy forest supervisor; Angus H. Taylor,

Routt; Frank E. McGrew, Shoshone; Charles Taylor, Superior, assistant forest rangers to forest rangers.

DISTRICT 3.—Operation: Paul P. Pitchlynn, deputy forest supervisor to national forest examiner, district office; Louis Vernon Slonaker, assistant forest ranger to national forest examiner, district office; Frederic Winn, Apache, national forest examiner to forest supervisor; Clifford W. McKibbin, Apache, forest examiner to deputy forest supervisor; James H. Sizer, Apache, forest ranger to deputy forest supervisor; J. Wilbur O'Byrne, Jemez, forest assistant to forest examiner; Wayne Russell, Pecos, assistant forest ranger to forest ranger.

DISTRICT 4.—Operation: Miller S. Benedict, Boise; Lee A. Harris, Wasatch, deputy forest supervisors to forest supervisors; James H. Hull, Caribou; David A. Arrivee, Fishlake; Frederick S. Baker, John C. Roak, Manti; Charles F. Evans, Palisade; Samuel E. Bower, Sevier; Raymond D. Garver, Adolph G. Hauge, Earl C. Sanford, Wasatch, forest assistants to forest examiners; Ernest W. Herbert, Fillmore; Frederick L. Mott, Lemhi; Vivian N. West, Ruby, assistant forest rangers to forest rangers.

DISTRICT 5.—Operation: Charles C. Brunner, clerk (bookkeeper) to district fiscal agent, district office; Douglas K. Noyes, Klamath; Dwight C. Birch, Sierra, forest assistants to forest examiners.

DISTRICT 6.—Operation: Robert J. Craig, Crater; Clarence L. Henson, Oregon, assistant forest rangers to forest rangers; George A. Bright, Minam; Lawrence B. Pagter, Siuslaw; Thurman J. Starker, Whitman, forest assistants to forest examiners; William B. Osborne, jr., Oregon, forest examiner to deputy forest supervisor. Silviculture: Edwin C. Erickson, scaler to lumberman, district office; Julius V. Hofmann, forest assistant to forest examiner, district office. Lands: Asher Ireland, Adam H. Wright, forest rangers to national forest examiners, district office.

CHANGE IN DESIGNATION.

DISTRICT 1.—Operation: Burr W. Clark, Madison, forest clerk to forest ranger. District office: Hugh F. Ellard, logging engineer to lumberman.

DISTRICT 2.—Operation: Willis C. Danielson, draftsman (topographic) to draftsman (surveyor), district office; Clarence E. Taylor, Bonneville; Theodore Krueger, Nebraska; Victor C. Follenius, Pike; Roscoe B. Weaver, Routt, forest assistants to assistant forest rangers; William C. Davis, Minnesota, assistant forest ranger to forest guard.

DISTRICT 3.—Operation: Ernest T. F. Wohlenberg, forest assistant to assistant forest ranger. Lands: Floyd R. Wigely, clerk to forest ranger; Frank E. Andrews, forest supervisor to national forest examiner.

DISTRICT 4.—Operation: Rolland A. Stretch, Wyoming, forest supervisor to forest examiner; Dana Parkinson, Boise, forest examiner to deputy forest supervisor.

DISTRICT 5.—Operation: Frank B. Cayot, Plumas, forest ranger to deputy forest supervisor; James E. Nail, Plumas; Walter F. Emerick, Santa Barbara; Robert A. McInroy, Shasta, assistant forest rangers to forest rangers.

DISTRICT 7.—Operation: E. J. Meade, Arkansas, assistant forest ranger to forest assistant.

RESIGNED.

SILVICULTURE.—Franklin H. Smith, statistician in forest products.

PRODUCTS.—Roger E. Simmons, statistician in forest products. Laboratory: Lorraine J. Markwardt and James D. MacLean, assistant engineers in forest products.

ACQUISITION.—Robert P. Holdsworth, forest examiner; Francis C. Hall, transitman.

DISTRICT 1.—Operation: Charles A. Ballinger, Sioux, forest supervisor; William A. Raymond, Kootenai, deputy forest supervisor; Lester L. Davison, Gallatin, Robert L. Townsend, Madison, Frank J. Smith, Selway, assistant forest rangers; Wilry E. Escher, Kootenai, forest assistant; Charles H. Gregory, St. Joe, lumberman. District office: Henry H. Farquhar, forest examiner; Marie A. Hofstetter, clerk (typewriter).

DISTRICT 2.—Operation: James H. Ratliff, Routt, forest supervisor; Reginald L. Chase, surveyor draftsman, district office; Robert T. Sobey, Holy Cross, Harry E. Miller, Shoshone, forest rangers; Maitland E. Bradley, Arapaho, Homer Weller, Shoshone, Schuyler C. Swearengin, Sopris, assistant forest rangers; Alexander M. Bittner, Routt, clerk (forest); Harold C. Klein, Superior, clerk; M. Edith Garver, district office, William A. English, Bonneville, clerks (stenographers and typewriters).

DISTRICT 3.—Operation: Nathan V. Moser, blue printer, district office; Willard M. Drake, Coconino, forest supervisor; Claude E. Malbone, Coconino, assistant forest ranger; Lee R. York, Lincoln, forest ranger; R. Elaine Wooster, Prescott, clerk (forest).

DISTRICT 4.—Operation: James L. Pelton, Kiabab, forest supervisor; George D. Crockett, Minidoka, forest ranger; Carl Stockbridge, Kiabab, John J. Boyle, Ruby, Joseph R. Tognoni, Santa Rosa, Henry K. Lewis, Sawtooth, assistant forest rangers; Frank O. Kohler, Nevada, Clarence B. Johnson, Salmon, forest clerks; David A. West, Wasatch, clerk.

DISTRICT 5.—Operation: William W. Gray, Santa Barbara, Harry R. Powers, Shasta, forest rangers; Roy R. Marsh, Sequoia, forest clerk; Roy Oldfield, Sequoia, assistant forest ranger; Roy H. Blood, Sierra, clerk (stenographer and typewriter).

DISTRICT 6.—Operation: Horace Berry, Oregon, assistant forest ranger; William B. Milbury, Siskiyou, forest ranger; Charles J. Conover, Siuslaw, forest assistant. Products: Aimee Flexner, clerk (stenographer and typewriter), district office.

DISTRICT 7.—David E. Fitton, Arkansas, deputy forest supervisor.

DISMISSED.

DISTRICT 3.—Operation: Walter R. Atkeson, Datil, assistant forest ranger.

With deep regret announcement is made of the death of John Y. Toler, assistant forest ranger, Lassen, June 5; Louis Margolin, forest examiner, district 5, June 20; Sterling L. Colton, forest ranger, La Sal, July 11; George O. Harlan, assistant forest ranger, San Juan, August 8; and Mrs. Georgia N. Goldsmith, clerk, Washington office, August 18.

SERVICE NOTES FOR OCTOBER.

These notes contain instructions and necessary information to forest officers, and will therefore be carefully read and kept on file for reference.

ACCOUNTS.

Appointments.

In the future all letters or telegrams of declination of eligibles on the assistant forest ranger register should be forwarded immediately upon receipt to the district fiscal agent for transmittal to the Washington office.

LAW.

OFFICE OF THE SOLICITOR.

Law Cases in District 1—

United States *v.* Ed. Kinnison: Grazing trespass, Beaverhead National Forest. Settled in full by payment of $8.59, value of forage consumed.

United States *v.* George Whitworth: Grazing trespass, Beaverhead National Forest. Settled in full by payment of $15.02, value of forage consumed.

United States *v.* O. J. Langhus: Bribing forest officer, Absaroka National Forest. Langhus held by United States commissioner for action Federal grand jury.

United States *v.* Homer Hodges: Occupancy trespass, Deerlodge National Forest. Temporary injunction granted by Federal court restraining Hodges from grazing cattle on Pioneer ranger station.

United States *v.* A. E. Elvers: Fire trespass (criminal), Cabinet National Forest. United States commissioner refused to hold Elvers for Federal grand jury.

United States *v.* Rudolph Kraft and United States Fidelity & Guaranty Co.: Failure of Kraft to comply with terms of timber sale contract, Cabinet National Forest. Five hundred dollars, the full amount of Kraft's bond, paid by surety company.

Law Cases in District 2—

United States *v.* E. W. Bever: On September 8, 1914, in the United States district court at Montrose, Colo., defendant pleaded guilty to information charging him with grazing sheep on the Montezuma National Forest without a permit, and was sentenced to pay a fine of $10 and costs.

United States *v.* J. H. Cole and Wm. Noble: Grazing trespass, Routt National Forest. Settled by payment of $106.25.

United States *v.* Steve Mark et al.: Fire trespass, Harney National Forest. During the September term of court at Deadwood, S. Dak., defendants, indicted for leaving a fire unattended on the Harney National Forest, failed to appear, forfeiting their bonds.

Law Cases in District 3—

United States *v.* R. F. Keene: Grazing trespass, Gila National Forest. Decree entered August 8, 1914, enjoining Keene from further grazing stock on the forest and providing for the recovery of $25 damages and the costs, amounting to $83.25. Amount of damages and costs paid August 9, 1914.

United States *v.* F. E. Sanchez: Grazing trespass, Lincoln National Forest. Defendant held for grand jury under $500 bond.

United States *v.* J. W. Marley & Sons: Grazing trespass, Coconino National Forest. Judgment for $450 satisfied July 30, 1914.

Law Cases in District 6—

The Sparta Irrigation Co. brought an action to restrain the supervisor of the Minam National Forest and two other defendants from interfering with its ditch, which it apparently had abandoned for a time, but has resumed use. Damages amounting to $5,000 were also asked. After a conference between the attorney and president of the plaintiff company and the assistant to the solicitor and United States attorney the company was persuaded to drop its action against the supervisor. This was done upon motion of plaintiff's attorney in open court.

LANDS.

Numbering Supplemental Lists.

The instructions by letter of August 3, "L, Service Settlement, List Numbers," have been misinterpreted in some instances. They should be understood as follows:

When submitting supplemental lists which describe *by legal subdivisions* areas to be listed, parts of which areas have already been listed and described by metes and bounds, and which must therefore be excepted from the total area of the new list, the supplemental list should be given a new number and the *net acreage* thereby listed should be stated. Reference should be made in the body of the letter to the

number of the previous list, and to the acreage of the area embraced in that list.

The list numbering of roadway strips previously excepted and which it is subsequently desired to list will continue the same as heretofore, giving the old list number with the word "supplemental" added.

SERVICE PUBLICATIONS ISSUED.

Departmental Bulletin 80.—Effects of Varying Certain Cooking Conditions in Producing Soda Pulp from Aspen.

Departmental Bulletin 101.—Relative Resistance of Various Conifers to Injection with Creosote.

Departmental Bulletin 129.—Yields from the Destructive Distillation of Certain Hardwoods.

Folder for Cache National Forest.

Folder for Payette National Forest.

Folder for Shasta National Forest.

Folder for Sitgreaves National Forest.

Folder for Stanislaus National Forest.

CUMULATIVE INDEX TO SERVICE NOTES AND ORDERS.

(OCTOBER, 1914.)

[Numbers in parenthesis after the month indicate page.]

Alterations made in accounts during administrative examination; July (25–26).
Appointments; October (57).
District 7 established; July (25).
Numbering supplemental lists; October (58).
Service Order 43; July (25).
Law cases in district 1; July (27); October (57).
2; July (27); October (58).
3; July (27); October (58).
4; July (28).
5; July (28).
6; July (28–29); October (58).
Trespass cases, fire, district 1; October (57).
2; July (27); October (58).
4; July (28).
5; July (28).
6; July (29).
grazing, district 1; July (27); October (57).
2; October (58).
3; July (27); October (58).
5; July (28).
6; July (28).
occupancy, district 1; October (57).
2; July (27).
4; July (28).
5; July (28).
6; July (28–29).
timber, district 1; July (27).
2; July (27).
5; July (28).
6; July (29).

WASHINGTON: GOVERNMENT PRINTING OFFICE: 1914

U. C. BERKELEY LIBRARIES
C042748980

301934

SD121
P4
v.2

UNIVERSITY OF CALIFORNIA LIBRARY